

EXTENSION AND ADVISORY TEAM

GUIDE TO PEST MANAGEMENT IN CANNABIS

Nova Scotia Cannabis Guide to Pest Management 2023









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Nova Scotia Cannabis Guide to Pest Management 2023

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LIABILITY STATEMENT

Recommendations in this guide are given for general information only and do not give the user the right to use a product in a manner not in accordance with the pesticide label or Pest Control Products Act. Perennia, by funding and printing this publication, and the editors/authors, do not offer any warranty or guarantee and do not assume any liability for crop loss, animal loss, health, safety, or environmental hazard caused by the use of any pesticide, advice, or recommendation in this schedule. Pesticides used in this schedule are products labeled for the target and crop. This information was retrieved from the Pest Management Regulatory online of Registered Products Database. The list of products presented in this schedule is intended to be complete, based on products known to be available in the region, but in no way is guaranteed to be complete. Some of the products listed may not be available. Trade names are given as a convenience to producers and are neither an endorsement of the product nor a suggestion that similar products are not available or effective.



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PESTICIDE EMERGENCY CONTACT INFORMATION

| Poison Control Centres | | | | | | | | | | |
|------------------------|-------------------------------------|-------------------------------------|--|--|--|--|--|--|--|--|
| Nova Scotia | 800.565.8161 or 902.470.8161 | IWK, Halifax, NS | | | | | | | | |
| New Brunswick | 911 | Ask for Poison Information | | | | | | | | |
| Prince Edward Island | 800.565.8161 or 902.470.8161 | IWK, Halifax, NS | | | | | | | | |
| Newfoundland | 709.722.1110 | Dr. Charles A. Janeway Child Health | | | | | | | | |
| | | Care Centre, | | | | | | | | |
| | | St. John's, NF | | | | | | | | |

| Environmental Emergencies (Pesticide Spills) | | | | | | | |
|--|--------------|--|--|--|--|--|--|
| Transport Canada Regional Operations Centre (24 hours) | | | | | | | |
| Nova Scotia | 800.565.1633 | | | | | | |
| New Brunswick | 800.565.1633 | | | | | | |
| Prince Edward Island | 800.565.1633 | | | | | | |
| Newfoundland | 800.563.9089 | | | | | | |

ABBREVIATIONS & CONVERSIONS

| Formulation and Measurement Abbreviations | | | | | | | | |
|---|--------------------------|---------|---------------------------------|--|--|--|--|--|
| FORMULA | TIONS | MEASURE | EMENTS | | | | | |
| DF | Dry flowable | mL | millilitre | | | | | |
| EC, E | Emulsifiable concentrate | kPa | kilopascal | | | | | |
| L | Liquid | kg | kilogram | | | | | |
| Sn / Su | Suspension | g | gram | | | | | |
| WP/W | Wettable powder | L | litre | | | | | |
| | | BIU | Billions of International Units | | | | | |
| | | | parts per million (1000 ppb) | | | | | |
| | | ppb | parts per billion (1/1000 ppm) | | | | | |

| Helpful Conversions ¹ | |
|---|--|
| kPa X 0.14 = pounds per square inch (psi) | millilitres X 0.035 = fluid ounces |
| hectares X 2.47 = acres | litres X 35 = fluid ounces |
| kilograms X 2.2 = pounds | litres X 0.22 = imperial gallons |
| kilograms per hectare X 0.89 = pounds per acre | litres per hectare X 14.17 = fluid ounces per acre |
| kilograms per hectare X 0.40 = kilograms per acre | litres per hectare X 0.40 = litres per acre |
| | degree-days C X 1.8 = degree-days F |

It is not recommended to convert label rates to imperial units because there is a high probability of mathematical and rounding errors. Present day pesticides are formulated to be more effective in smaller amounts. Therefore, even small conversion errors can lead to the use of incorrect rates (either too high or too low). Use metric – you will be glad you did!

¹ Pesticide Units of Measurement





| Pest | Group | Active Ingredient | Pesticide Product Name | Rate | Restricted Entry Interval (REI) | Pre- harvest Interval (PHI) | Remarks |
|-----------|-------|-------------------|------------------------------|-----------------|--|--------------------------------------|---|
| WEEDS | | | | | | | |
| Grass and | | Ammonium salt of | AXXE Broad | 0-3 cm tall: | - | - | Non- selective, contact herbicide. Use an |
| Broadleaf | | Fatty Acid 36.0% | Spectrum | 45L/280L water | | | application volume depending on the size of the |
| | | | Herbicide | per ha | | | weeds: 325L/ha for weeds <3cm, 625L/ha for |
| | | | | | | | weeds 3-6 cm tall. |
| | | | | 3-6 cm tall: | | | 765L/ha for larger weeds (>6cm) |
| | | | | 87L/538L water | | | |
| | | | | per ha | | | See label for specific directions on application |
| | | | | | | | equipment and methods. Do not allow it to |
| | | | | 6cm or taller: | | | contact your crop. Do not apply to tissue that is |
| | | | | 106L/659L water | | | wet from dew/rain/irrigation. Do not apply |
| | | | | per ha | | | within 2 hours (before/after) a rain event. |





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| DISEASES | | | | | | | |
| Botrytis | | Gliocladium catenulatum Strain J1446 1.0 x 10 ⁹ CFU/g Gliocladium catenulatum Strain J1446 2 x 10 ⁸ CFU/g | Prestop WG Prestop | 0.05% solution 0.5% solution | 4 hours 4 hours | - | For indoor production. Suppresses stem canker caused by <i>B. cinerea</i> . Most effective when used preventatively. Apply to the stems and foliage but stop before the point of run-off. Re-apply every 3-4 weeks for optimum control. Also effective against Pythium spp. (See application instructions below). For indoor production. Suppresses stem canker caused by <i>B. cinerea</i> . Most effective when used preventatively. Apply to the stems and foliage but stop before the point of run-off. Re-apply every 3-4 weeks for optimum control. |
| | | | | | | | Also effective against Pythium spp. (See application instructions below). |
| | | Trichoderma harzianum Rifai strain KRL-AG2, contains minimum 1 x 10 ⁷ CFU/g dry weight | Rootshield HC | 3.75 – 10g/L water | 4 hours | 0 days | For indoor and field production. Suppression of botrytis blight. Most effective when used preventatively. Apply to foliage every 7-14 days depending on disease pressure. Also effective against Pythium, Rhizoctonia, and Fusarium (see application instructions below). |





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| Botrytis, Powdery Mildew | P5 | Extract of Reynoutria sachalinensis 20% | Regalia Maxx | 0.25% v/v | Do not enter until dry and area thoroughly ventilated | 0 days | For indoor and outdoor production. Suppression of powdery mildew and partial suppression of gray mold. Begin applications at the first sign of disease, or when conditions become conducive for disease development. Repeat as necessary on a 7–10-day interval. Spray until just prior to runoff. Do not apply in a spray volume of more than 1500 L/ha. |
| | | Streptomyces lydicus strain WYEC 108, contains minimum of 1.0 x 10 ⁷ CFU/g | Actinovate SP Fungicide | 425 g/1100L water per ha | 4 hours | 2-3 weeks for foliar spray | For indoor and field production. Suppression of grey mold and powdery mildew. Apply it as a foliar spray, spray to wet but avoid run-off. First application when conditions are conducive to disease and repeat every 7-14 days. Can be applied using hand-held backpack or ground spray equipment. Also effective against Pythium spp (see application instructions below). |
| | | Streptomyces lydicus strain WYEC 108, contains minimum of 1.0 x 10 ⁷ CFU/g | CannaPM | 425g/1100L per ha | 4 hours, or until sprays have dried | 2-3 weeks for foliar spray | For indoor and field production. Suppression of powdery mildew and botrytis. Apply foliar spray to leaves and blossoms. Spray to wet but avoid run-off. First application should happen when conditions favour disease development and should be repeated every 7-14 days. Can be applied via backpack or ground sprayer equipment. Also effective against Pythium spp. (see application instructions below). |





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| Botrytis, Powdery Mildew (cont.) | | Hydrogen Peroxide 27% Peroxyacetic acid 2% | OxiDate 2.0 | 1L/100L water | 4 hours, or until sprays have dried | 0 days | For indoor and field production. Partial suppression of powdery mildew. Suppression of botrytis. Start applications before the disease occurs, the first sign of disease, or when weather conditions are favourable for development. Spray to run off. Apply at 7-day intervals but reduce to 5 if disease pressure is high. |
| | | Hydrogen Peroxide 27% | ZeroTol | Young foliage – low disease pressure: 33 mL per 10 L water. Dense foliage – high disease pressure: 100 mL per 10 L water. | Do not enter until dry | - | For indoor production. Suppression of grey mold and powdery mildew. Toxic to bees and other beneficial insects. Use 11 – 19 Litres of solution/ 100m² depending on canopy age and disease pressure. Begin applications when conditions conducive to disease development. Spray diluted solution to achieve full and even coverage of foliage. Apply at a minimum 7-day interval. |
| Botrytis, Sclerotinia, Powdery mildew | BM01 | Tea Tree Oil 23.8% | Timorex Gold | 2.0L/ha | 4 hours, or until sprays have dried | 2 days | For protected and field production. Control of grey mold, Suppression of powdery mildew and white mold. Apply preventatively, or in the early stages of disease for best results. Good coverage and wetting of foliage required. Use enough spray solution to completely penetrate the leaf canopy, covering tops and bottoms of leaves until runoff. Re-apply every 7-14 days. Recommended spray volume of 400-1000L/ha/Do not apply when temperatures are above 35°C (95F) |





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| Botrytis, Sclerotinia, Powdery mildew (cont.) | BM02 | Bacillus amyloliquefaciens strain D747, contains minimum 1x 10 ¹⁰ spores/mL | Double Nickel LC | 2.5 – 5.0 L/ha | - | 0 days | For indoor and field production. Partial suppression of white mold, grey mould and powdery mildew, suppression of botrytis via foliar spray. Begin applications preventatively when conditions favour disease and ensure full spray coverage. Use a lower rate for smaller plants/low pressure situations, and a higher label rate and more frequent applications when high risk for disease on larger sized plants. White mold and powdery mildew: repeat applications every 3-14 days if conditions favour disease. Grey mold (botrytis): repeat application every 3- |
| | | Bacillus amyloliquefaciens strain D747, contains minimum 5 x 10 ¹⁰ spores/g | Double Nickel 55 | 0.5-1 kg/ha | - | 0 days | For indoor and field production. Partial suppression of white mold, grey mold and powdery mildew, suppression of botrytis via foliar application. Begin applications preventatively when conditions favour disease and ensure full spray coverage. Use a higher label rate and more frequent applications when high risk of disease on larger sized plants. White mold and powdery mildew: repeat application every 3-14 days depending on conditions. Grey mold: repeat application every 3-11 days depending on conditions. |





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| Powdery Mildew | M | Sulphur 99.9% | Agrotek Vaporized Sulphur | 0.4 – 3.2 g sulphur/1,000 m ² per application | 2 hours | 0 days | For indoor production. Prevent and control powdery mildew. Use one (1) vaporizer per 250 - 1,000 m2 in the growing area. Run the vaporizer for 1 - 8 hours per night, repeating 2 -7 times per week depending on crop susceptibility, temperature and ventilation, and disease pressure. Do not apply if temperature is >24°C and high humidity prevails. |
| | | Sulphur 92% | Bartlett Microscopic Wettable Sulphur | 750 g/1000L water/ha | 24 hours | 0 days | For indoor production. Control of powdery mildew. Maximum of 10 applications per crop cycle. Apply weekly from onset of first symptoms and during conditions favouring disease. |
| | | | Doktor Doom Premium Sulphur Fungicide | 750 g/1000L water/ha | 24 hours | | For indoor production. Maximum 10 applications per crop cycle. Apply weekly after first symptoms appear, or during conditions favouring disease. Do not apply if high temperatures (>26C) and high humidity are expected 3 days following application. Do not use within 30 days of an oil spray. |
| | | Canola Oil 96% | Doktor Doom Formula 420 Professional use 3- in-1 Crop and Plant Rescue Concentrate | 2% solution | - | - | For indoor production. Suppresses powdery mildew. Begin when mildew appears and continue every 7-14 days, depending on disease pressure. Use spray volumes of 700 – 1900 L/ha. Do not use within 30 days (before or after) of using sulfur. Do not apply when temperatures are high (>32°C). Combat aphids, mites, and whitefly as well (see application instructions below). |



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| Powdery Mildew (cont.) | | | General Hydroponics SuffoCoat | 2% solution | - | - | For indoor production. Suppression of powdery mildew. Initiate sprays when disease first appears. Continue sprays every 7-14 days, depending on disease pressure. Spray volumes of 700-1900 L/ha are recommended. Do not use within 30 days (before or after) of using sulfur. Do not apply when temperatures are high (>32°C). Combat aphids, mites, and whitefly as well (see application instructions below). |
| | | | Vegol Crop Oil | 2% solution | - | 0 days | Indoor production. Suppresses powdery mildew. Initiate sprays when disease first appears. Spray until plant parts are wet. Continue sprays every 7-14 days, with shorter intervals for periods of high disease pressure. Spray volumes of 700-1900 L/ha are recommended. Do not use within 30 days (before/after) a sulfur application. Do not apply when the temperature exceeds 32°C. Toxic to beneficial insects. Effective against aphids, mites, and whitefly as well (see application instructions below). |
| | | Citric Acid - 10.73g/L Lactic Acid - 21.37g/L | Cyclone | 1.2% solution | 4 hours | 0 days | For indoor and outdoor production. Spray at 7–10-day intervals. Apply in sufficient spray volume to ensure thorough coverage. Surfactant can help achieve better coverage of leaves and better product efficacy. Begin applications when conditions are conducive to disease development. |





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| Powdery Mildew (cont.) | | Citric Acid - 10.73g/L Lactic Acid - 21.37g/L | Lacto-San | 1.2% solution | 4 hours, or until the spray has dried | 0 days | For indoor and outdoor production. Apply in sufficient spray volume to ensure thorough coverage. Start applying prior to/in the early stages of disease development. Re-apply at 7—10-day intervals. |
| | | Garlic Powder 15% | Influence LC | 1.8% solution | Do not enter until dry | 0 days | For indoor production. Suppression of powdery mildew. Should be applied preventatively or at first signs of disease, ensuring thorough coverage. Repeat applications in 7–10-day intervals. Do not exceed 18L/ha. Best when applied with a high-volume sprayer (do not use with ultra-low volume sprayers) |
| | | Mineral Oil 80% | SuffOil-X | 10-20L/1000L | 12 hours | 0 days | For indoor production. Suppression of powdery mildew. Begin applications when conditions are favourable for disease. Use lower application rate (1%) during budding/flowering. Fully cover foliage while reducing run-off. Re-application interval is 14 days. Do not apply on new seedlings or clones less than 2 weeks old without sensitivity (phytotoxicity) test. Minimum spray solution of 50 L/ha, maximum of 1000 L/ha. Do not apply to plants experiencing moisture stress or high/freezing temperatures (>33°C). For the best timing, reference product label for more information. Do not use in combination with or directly before/after sulfur containing products. |
| | | | | | | | Works against spider mites, scales, thrips, aphids, and whitefly as well (see insect application instructions below). |

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| Powdery Mildew (cont.) | | Mineral Oil 99% | PureSpray- FX | 1-2% solution | 12 hours | - | For indoor production. Suppresses powdery mildew. Begin applications when conditions are favourable for disease, and limit applications to a maximum 6 during lifespan of plant. Use lower application rate (1%) during budding/flowering. Re-application interval is 7- 14 days. Use sufficient spray volume (1000-3000 L/ha) for thorough crop coverage. Do not apply on new seedlings or clones less than 2 weeks old without having determined sensitivity (phytotoxicity). Do not apply when temperatures are >30°C, or when the plants are experiencing drought stress. Check label for sulfur compatibility. |
| | | | | | | | Combats mites and aphids as well (see application instructions below). |
| | | Potassium bicarbonate 85% | Milstop Foliar Fungicide | Greenhouse/ Indoor: 0.28-0.56 kg/1000m ² Field: 2.8 – 5.6 kg/ha | 4 hours | 0 days | For indoor and field production. Control or suppression of powdery mildew. Maximum of 10 applications per season. Start application at first signs of disease, ensuring full plant coverage. Use a spray volume of 1000 L/ha, with a reapplication interval of 7-14 days: depends on disease pressure and environmental conditions. For indoor commercial facilities treated using an ultra-low volume method of application must be well ventilated prior to entry or re-entry. |
| | | | Sirocco | 2.8 – 5.6 kg/ha | 4 hours | 0 days | For indoor and field production. Suppression of powdery mildew. Maximum of 10 applications per season. Start application at first sign of disease or when conditions are conducive for disease development. Apply at 7 – 14-day intervals. Use a spray volume of 1000 L/ha. Do not apply via irrigation system |

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| Pythium spp. | | Streptomyces Iydicus strain WYEC 108, contains minimum of 1.0 x 10^7 CFU/g | Actinovate SP Fungicide | Hydroponic systems: 420 – 840 g/ha Soil drench: 42 – 84 g / 100L per m³ growing media | 4 hours | 0 days | For indoor production. Suppression of seed rot, pre/post emergence damping off and root rot. Can be applied as a drench or through irrigation system until growing media is thoroughly wet but before run-off. First preventative application after seeding/transplanting, or in conducive conditions. Repeat application every 7-14 days. Can be applied using low pressure watering nozzles, overhead boom type sprayers/sprinklers, hydroponic systems, injectors, flood benches, or other drench watering systems. Effective against Botrytis and powdery mildew as well (see above). |
| | | Streptomyces Iydicus strain WYEC 108, contains minimum of 1.0 x 10 ⁷ CFU/g | CannaPM | Hydroponic systems: 420-840 g/ha Soil drench: 42 -84 g/100 L water/ m³ growing media | - | 0 days | For indoor production. Suppression of Seed rot, pre- and post- emergence damping off, and root rot. Apply to the growing media until the pot is fully wet while preventing additional run-off. First preventative application should take place immediately after seeding/transplanting and repeat every 7-14 days as needed. Also effective against Botrytis and powdery mildew as well (see application instructions above). |





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| Pythium spp. (cont.) | | Gliocladium catenulatum strain J1446, contains 2 x 10 ⁸ CFU/g | Prestop | 0.5% solution | 4 hours | - | For indoor production. Suppresses crown and root rot caused by Pythium spp. Start by treating media prior to seeding/transplanting or immediately after transplant. When applying via drench, always adjust the volume of water according to the moisture content of the growing media. Repeat applications every 3-6 weeks, with shorter intervals under conditions conducive of moderate to high disease pressure. Also effective against Botrytis (see application instructions above). |
| | | Gliocladium catenulatum strain J1446, minimum of 1.0 x 10 ⁹ CFU/g | Prestop WG | 0.05% solution | 4 hours | - | For indoor production. Suppression of crown and root rot caused by Pythium spp. Begin applications by treating media prior to seeding/transplanting or apply as a drench immediately after transplant. When applying via drench, always adjust the volume of water according to the moisture content of the growing media. Repeat applications every 3-6 weeks, with shorter intervals under conditions conducive of moderate to high disease pressure. Also suppresses Botrytis (see application instructions above). |





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| Pythium, Rhizoctonia, Fusarium | BM02 | Trichoderma harzianum Rifai strain T22, contains minimum of 1.0 x 10° CFU/g dry weight | Trianum P Biological Fungicide | High crop density: Apply 3g/m2, use water volume equivalent to 10% of substrate volume, or 2-5L/m2. Use half-rate dose (1.5 g/m2) if plants have been treated previously. Low crop density: Apply 30g/1000 plants, using water volume equivalent to 10% of substrate, or 100L/1000 plants. Half-rate dose is 15g/1000 plants. Field: After sowing: 1.5 g/m² of cultivated area in 1.33L of water After transplanting: 6g in 1L of water, apply 500L/ha of suspension | | | suppression of Rhizoctonia, Pythium and Fusarium on indoor cannabis. Suppression of Rhizoctonia in field-grown cannabis. For indoor cannabis, use half-rate dose if plants have been treated previously, and repeat the lower dose every 10 weeks. For best results, use from propagation onwards. Active from 10-34 °C and at a pH between 4 and 8. |





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| Pythium, Rhizoctonia, Fusarium (cont.) | | Trichoderma harzianum Rifai strain KRL-AG2, contains minimum of 1.0 x 10 ⁷ CFU/g dry weight | Rootshield Granules Biological Fungicide | 600- 750 g per m ³ (loose) planting mix or soil | - | 0 days | For indoor production. Suppression of root diseases caused by the listed agents. For best results thoroughly incorporate during mix preparation or pot filling, or rake/till into planting beds. |
| | | Trichoderma harzianum Rifai strain KRL-AG2, contains minimum of 1 x 10 ⁷ CFU/g dry weight | Rootshield HC Biological Fungicide | 55-110g/ m³ of loose potting mix | 4 hours | 0 days | For indoor and field production. Suppresses root rot caused by the listed agents. Most effective when used preventatively. Applied to the potting mix before planting, or as a drench post planting (can be applied through low pressure watering nozzles or other watering systems). Spray volume of 30-45g/100L is sufficient. Effective against Botrytis as well (see application notes above). |
| | | Trichoderma harzianum Rifai strain KRL-AG2, contains minimum of 1.0 x 10 ⁷ CFU/g dry weight | Rootshield WP Biological Fungicide | 55-110 g per m ³ of (loose) potting mix | - | 0 days | For indoor production. Suppression of Pythium, Rhizoctonia and Fusarium. Apply to potting mix or soil as a drench prior to planting. Within a crop cycle, one re-application can be made after 8-12 weeks, as needed. The number of applications per crop cycle is 1-2. Maximum of 6 applications per year. Live spores become active when soil temperatures are above 10°C, and soil is neutral/acidic – control is not effective in cold temperatures. Use a spray volume of 30 - 45g/100L. |



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| Pythium, Fusarium | BM02 | Trichoderma asperellum strain T34, contains minimum of 1.0 x 10° CFU/g dry weight | Asperello T34 Biocontrol | Incorporation into growing media: 10g/m³ growing media. Spray/drench: 0.5g/m² in sufficient water (5L/m²) Chemigation after planting: 5-10g/50-100L water per m³ of growing media (or per 1000 1L pots) | 4 hours, or until sprays have dried | 0 days | For indoor production. Use preventatively for suppression of fusarium wilt, partial suppression of diseases caused by <i>Pythium</i> , and <i>Fusarium</i> . For the best results against soil-borne pathogens, start at plant propagation, follow-up at transplant and apply regularly for 2-3 months afterwards. Check the label for specific instructions depending on the method of application. |
| Pythium, Rhizoctonia, Fusarium, Phytophthora | | Trichoderma harzianum Rifai strain KRL-AG2, contains minimum of 1.0 x 10 ⁷ CFU/g dry weight. Trichoderma virens strain G-41, contains minimum of 5.3 x 10 ⁶ CFU/g dry weight | BW240 Biological Fungicide | 30-60 g/100 L applied to 10 m ² of soil/potting mixture surface | 4 hours | 0 days | For indoor production. Suppression of root rot caused by the listed agents. Apply immediately after sowing seed or planting. A second application may be made after 8-10 weeks if the disease is expected. DO NOT use overhead boom chemigation for the second application or after the four-leaf stage. When disease pressure is high, use the highest rate and shortest interval. |



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| Pythium, Rhizoctonia, Fusarium, Phytophthora (cont.) | | Trichoderma harzianum Rifai strain KRL-AG2, contains minimum of 1.0 x 10 ⁷ CFU/g Trichoderma virens strain G-41, contains minimum of 5.3 x 10 ⁶ CFU/g | Rootshield Plus G Biological Fungicide | Pre-planting media incorporation: 600-1200g/ m³ media Pre-planting broadcast application: 1.25-5g/m2 potting mix if grown in indoor planting beds. | 0 hours | 0 days | For indoor production. Suppresses root rot and damping off caused by the listed agents. Pre-plant incorporation: Apply immediately before planting, incorporate well into the planting media. Pre-plant broadcast: Apply immediately before planting. Broadcast uniformly over containers or planting beds. Sufficient irrigation of at least 5 mm should occur within 24 hours after application to integrate active ingredients into the root zone. Re-applications can be made every 6-10 weeks at the same broadcast rate. |
| | | Trichoderma harzianum Rifai strain KRL-AG2, contains minimum of 1 x 10 ⁷ CFU/g dry weight. Trichoderma virens strain G-41, contains minimum 5.3 x 10 ⁶ CFU/g of dry weight | Rootshield Plus WP Biological Fungicide | 30-60g in 100L of water applied to 10 m² of soil/potting mixture surface | 4 hours, or until sprays have dried | 0 days | For indoor production. Disease suppression . Apply immediately after sowing seed or planting. A second application may be made after 8-10 weeks if the disease is expected. DO NOT use overhead boom chemigation for the second application or after the four-leaf stage. When disease pressure is high, use the highest rate and shortest interval. |





| Pest | Group | Active Ingredient | Pesticide Product Name | Rate | Restricted Entry Interval (REI) | Pre- harvest Interval (PHI) | Remarks |
|---|-------|---|--------------------------------------|----------------------------------|--|--------------------------------------|---|
| Pythium, Fusarium, Verticillium dahlia | | Oriental Mustard Seed Meal 100% | MUSTGROW Crop Biofumigant | Field Application: 2240 kg/ha | 24 hours | - | For protected and field production. Suppression of soil-borne Pythium, Fusarium and Verticillium wilt. Product to be applied dry, as opposed to in solution. Field application: apply product directly to dry soil surface 14 days prior to seeding/transplanting. Incorporate into planting beds to a depth of 10 cm. Immediately after application, apply water uniformly to treated area so that soil is well moistened to a depth of 10-15cm. Greenhouse/Tunnel/Indoors: in isolated outdoor area, mix product with loose planting mix/soil. Thoroughly incorporate and activate by thoroughly watering the treated soil until moistened. Restrict access for 14 days before soil is moved into production space. Also registered for use against root knot nematode (see application instructions below). |
| Phytophtora spp., Verticillium wilt | BM02 | Trichoderma asperellum strain ICC 012, contains 5x10 ⁶ CFU/g Trichoderma gamsii strain ICC 080 contains 5x10 ⁶ CHU/g | FORETRYX Biofungicide NEW 2023 | 2.8kg product/ha | 0 hours | 0 days | For indoor production. Partial suppression post- emergence damping off. Suppression of verticillium wilt. Product is to be applied through drip chemigation. Apply up to a week before planting, at planting, and every 14 to 21 days afterwards as long as the potential for disease pressure persists. Apply to moderately moist soils using irrigation volumes that do not cause runoff from the treated area. |

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^{*}Red text indicates label changes and products that are new to this guide in 2023.



| Pest | Group | Active Ingredient | Pesticide Product Name | Rate | Restricted Entry Interval (REI) | Pre- harvest Interval (PHI) | Remarks |
|--|-------|---|--|--|---|---|--|
| Sclerotinia, Botrytis | P06 | Bacillus mycoides isolate J, contains minimum of 3.0 x 10 ¹⁰ viable spores/g | LifeGard WG | 0.33g/L | 4 hours, or until sprays have dried | 3-4 weeks for foliar applicati on | For indoor and field production. Provides partial suppression against white and grey mold. Apply in sufficient volume for uniform coverage. Do not apply <70g or >333g per ha. Begin as a preventative spray. Apply every 7–14 days when applied on its own. Use a shorter interval when anticipating a high disease pressure. When used as a part of a rotational program, repeat every 7-21 days. |
| Thielaviopsis spp., Pythium spp., Fusarium spp., Phytopthera | | Chloropicrin 99% | Chloropicrin 100 Liquid Soil Fumigant | Banded application: 93L / ha Broadcast application: Equivalent rate must be calculated to determine buffer zone – see label | Non-tarped: 5 days after application Tarped: See label for specific time frame | - | For field production. Control of soil-borne illnesses caused by the listed agents. Early season, pre-planting soil fumigant. Prior to application, make sure the soil is in planting condition and has sufficient moisture to support seed germination. After application, leave the soil undisturbed for 10-14 days. Wet soil will slow the diffusion of the fumigant, therefore will require a longer exposure time. Once the exposure time ends, aerate the soil. If heavy rains and cool temperatures occur during exposure period, work the soil several times for thorough aeration. Aerate for at least 5 days after opening row. For broadcast application: Apply by means of chisels spaced no more than 30cm apart. Also effective against root-knot and root lesion nematode (see application instructions below). |





| Pest G | Group | Active Ingredient | Pesticide Product Name | Rate | Restricted Entry Interval (REI) | Pre- harvest Interval (PHI) | Remarks |
|--|-------|--------------------|------------------------------|--|---|--------------------------------------|---|
| Thielaviopsis | | Chloropicrin 85.1% | PIC Plus | Banded | Minimum of | - | For field production. Early season soil treatment |
| spp., Pythium spp., Fusarium spp., Phytopthera (cont.) | | | Fumigant | application: 108L / ha Broadcast application: Equivalent rate must be calculated to determine buffer zone – see label | 5 days – see label for specific instructions | | (pre-plant soil fumigation). Control of soil-borne illnesses caused by the listed agents. Prior to application: soil should be in condition for planting with sufficient moisture to support seed germination. After application, leave soil undisturbed for 10-14 days. Wet soil slows diffusion of the fumigant and requires a longer exposure period. At the end of exposure period, aerate the soil. If heavy rains and lower temperatures occur during exposure period, work the soil several times for thorough aeration. Aerate for at least 5 days after opening row. For broadcast application: For broadcast, apply by means of chisels spaced no more than 30cm apart. Also effective against root knot and root lesion nematode (see application instructions below). |



| Pest | Group | Active Ingredient | Pesticide Product Name | Rate | Restricted Entry Interval (REI) | Pre- harvest Interval (PHI) | Remarks |
|----------------------------|-------|-------------------|---|-------------|--|--------------------------------------|--|
| INSECTS | | | | | | | |
| Aphids, Mites, Whitefly | | Canola Oil 96% | Doktor Doom Formula 420 Professional use 3-in-1 Crop & Plant Rescue Concentrate | 2% solution | - | - | For indoor production. Kills aphids, mites, and whiteflies. Apply at first sign of insect presence and repeat every 7 to 14 days as needed. Use spray volumes of 700 – 1900 L/ha, apply until plant parts are wet (including undersides of leaves). Do not use within 30 days (before or after) of using sulphur. Do not apply when temperatures are high (>32 °C). Suppresses powdery mildew as well (see application instructions above). |
| | | | General Hydroponics SuffoCoat | 2% solution | - | 0 days | For indoor production. Kills aphids, mites, and whiteflies. Toxic to beneficial insects. Begin when pests appear and repeat every 7 to 14 days as needed. Thoroughly spray plant parts until they are wet, including the underside of leaves. Spray volumes of 700-1900 L/ha are recommended. Do not apply when temperatures are high (>32°C). Do not use 30 days (before/after) the application of sulfur. Also effective against powdery mildew (see application instructions above). |



| Pest | Group | Active Ingredient | Pesticide Product Name | Rate | Restricted Entry Interval (REI) | Pre- harvest Interval (PHI) | Remarks |
|------------------------------------|-------|------------------------------------|---------------------------------|-------------|--|--------------------------------------|---|
| Aphids, Mites, Whitefly (cont.) | | | Vegol Crop Oil | 2% solution | - | 0 days | For indoor production. Kills aphids, mites, and whiteflies. Thoroughly spray plants until plant parts are wet. Toxic to beneficial insects. Spray volumes of 700-1900 L/ha are recommended. Begin when pests appear - repeat every 7 to 14 days as needed. Do not apply when temperatures are high (>32°C). Do not use 30 days (before/after) the application of sulphur. Effective at suppressing powdery mildew as well (see application instructions above). |
| | | Potassium salts of fatty acids 47% | General Hydroponics Exile | 2% solution | - | - | For indoor production. Control of aphids, spider mites, and whiteflies. Be careful when applying on a young crop: test phytotoxicity reaction before widespread use. Begin when pests appear. Using a spray volume of 700-1900 L/ha, wet the foliage well but minimize run-off. Repeat application every 1-2 weeks. Apply a maximum of 3 consecutive applications. Additional applications possible if previous experience with repeat applications of the product (under the same conditions) have not produced plant injury. |
| | | | Kopa Insecticidal Soap | 2% solution | - | 0 days | For indoor production. Control of aphids, spider mites and whitefly. Be careful when applying on a young crop: test phytotoxicity reaction before widespread use. Avoid spraying during full sun. Begin when pests appear. Wet the foliage well but minimize run-off. Repeat application every 1-2 weeks. Apply a maximum of 3 consecutive applications. Additional applications possible if previous experience with repeat applications of the product (under the same conditions) has not produced plant injury. |



| Pest | Group | Active Ingredient | Pesticide Product Name | Rate | Restricted Entry Interval (REI) | Pre- harvest Interval (PHI) | Remarks |
|------------------------------------|-------|--|------------------------------|------------------|---|--------------------------------------|---|
| Aphids, Mites, Whitefly (cont.) | | | Neudosan Commercial | 2% solution | - | 0 days | For indoor production. Control of aphids, spider mites and whitefly. Be careful when applying on a young crop: test phytotoxicity reaction before widespread use. Begin when pests appear. Wet the foliage well but minimize run-off. Repeat application every 1-2 weeks. Apply a maximum of 3 consecutive applications. Additional applications possible if previous experience with repeat applications have not produced plant injury. |
| | | | Opal Insecticidal Soap | 2% solution | - | 0 days | For indoor production. Control of aphids, spider mites and whitefly. Be careful when applying on a young crop: test phytotoxicity reaction before widespread use. Begin when pests appear. Wet the foliage well but minimize run-off. Repeat application every 1-2 weeks. Apply a maximum of 3 consecutive applications. Additional applications possible if previous experience with repeat applications of the product (under the same conditions) have not produced plant injury. |
| Cabbage Looper | 11 | Bacillus thuringiensis subspecies kurstaki, strain EVB113-19, contains 17500 cabbage looper units (CLU)/mg product | Bioprotec CAF | 1.8L/1000L water | 4 hours, or until sprays have dried | 0 days | For indoor production. Maximum of 8 applications per year with a 7-day interval between applications. Begin application just prior to egg hatch and continue as indicated by monitoring. Apply in sufficient water volume to ensure thorough coverage of the leaves. A minimum spray volume of 300L/ha (hydraulic sprayer) is recommended. |



| Pest | Group | Active Ingredient | Pesticide Product Name | Rate | Restricted Entry Interval (REI) | Pre- harvest Interval (PHI) | Remarks |
|---------------------------|-------|--|------------------------------|--------------------------------|--|--|---|
| Cabbage Looper (cont.) | | Autographa californica Nucleopolyhedrovi rus FV11, minimum of 5 × 10 ⁸ polyhedral inclusion bodies (PIBs) / mL | Loopex | 50 – 200 mL/ 400 L of water | Do not enter until mist has settled | 0 days | For indoor production. Application timing should target small larvae and be applied using high volume spray systems (minimum 400 L/ha). Uniform spray deposit coverage of the foliage is essential for optimum control. Repeat application every 7 to 14 days if monitoring indicates that it is necessary |
| Corn Earworm | | Helicoverpa armigera Nucleopolyhedrovi rus, isolate BV- 0003, minimum of 7.5 x 10 ¹² occlusion bodies (OBs)/L | Helicovex | 50-200mL/ha | 4 hours, or until sprays have dried | 0 days | For field production. Suppression of corn earworm. Mortality typically occurs within 5-7 days. Application timing should target eggs or 1 st instar larvae. Apply in sufficient water volume to ensure thorough coverage. Repeat application every 3-5 days if monitoring indicates necessary. 3-5 applications may be required. The use of pheromone traps is recommended to determine when adults arrive to lay eggs. Avoid application when heavy rain is forecast |
| Mites | | Silicon dioxide (present as 100% diatomaceous earth) 6.56% | DX13 Industrial | - | 4 hours, or until spray has dried | Do not apply past vegetativ e phase (plant or surround ing soil) | For indoor production. Kills spider mites. Apply at first sign of infestation. Hold aerosol can no less than 30cm away from plant surface and apply even coating to all plant surfaces. Obtain near drip coverage. Monitor the hazy white film of dust on treated surfaces. Spray surrounding areas (tables, pots, stem supports, soil) as well to increase control. Re-apply 7-14 days. Do not apply to cannabis, or surrounding soil past the vegetative phase. |





| | Product Name | Rate | Entry Interval (REI) | harvest Interval (PHI) | Remarks |
|---|--|--|--|--|---|
| Silicon dioxide (present as 100% diatomaceous earth) 82% Mineral oil 99% | DX13 Dust Purespray FX | 1-2% solution | Wait until dusts have settled and the area cleaned | Do not apply past vegetativ e phase (plant or surround ing soil) | For indoor production. Kills spider mites. May harm bees and other beneficial arthropods. Apply an even layer onto all plant surfaces (incl. underside of leaves and stems). Use sufficient product to obtain good coverage. Dust surrounding areas (tables, pots, shelving, soil etc). Hold the dust blower no less than 30cm away from the plant surface during dusting. Reapply after 7-14 days as needed to maintain good film coverage. Do not apply to cannabis, or surrounding soil, past the vegetative phase. For indoor production. Deters feeding in aphids, suppresses mites. Maximum 6 applications during lifespan of plant. Use lower application rate (1%) during budding/flowering. Reapplication interval is 7-14 days. Use sufficient spray volume, 1000-3000 L/ha, to ensure thorough crop coverage. Do not apply on new seedlings or clones less than 2 weeks old without having determined sensitivity (phytotoxicity). Do not apply during periods of moisture stress or when temperatures >30°C. Check label for compatibility with sulphur products. Registered for use against powdery mildew as well (see application instructions above). |
| | (present as 100% diatomaceous earth) 82% | (present as 100% diatomaceous earth) 82% | (present as 100% diatomaceous earth) 82% | (present as 100% diatomaceous earth) 82% dusts have settled and the area cleaned | (present as 100% diatomaceous earth) 82% dusts have settled and the area cleaned cleaned ing soil) apply past vegetativ e phase (plant or surround ing soil) |





| Pest | Group | Active Ingredient | Pesticide Product Name | Rate | Restricted Entry Interval (REI) | Pre- harvest Interval (PHI) | Remarks |
|----------|-------|-------------------|--|--|---|--------------------------------------|---|
| Nematode | | Chloropicrin 99% | Chloropicrin 100 Liquid Soil Fumigant | Banded application: 93L / ha Broadcast application: Equivalent rate must be calculated to determine buffer zone – see label | Non-tarped: 5 days after application Tarped: See label for specific time frame | - | For field production. Control of root knot, and root lesion nematodes. Early season, preplanting soil fumigant. Prior to application, make sure the soil is in planting condition and has sufficient moisture to support seed germination. After application, leave the soil undisturbed for 10-14 days. Wet soil will slow the diffusion of the fumigant, therefore will require a longer exposure time. Once the exposure time ends, aerate the soil. If heavy rains and cool temperatures occur during exposure period, work the soil several times for thorough aeration. Aerate for at least 5 days after opening row. For broadcast application: Apply by means of chisels spaced no more than 30cm apart. Also effective against Thielaviopsis spp, Pythium spp, Fusarium spp, and Phytophthora spp (see application instructions above). |





| Pest | Group | Active Ingredient | Pesticide Product Name | Rate | Restricted Entry Interval (REI) | Pre- harvest Interval (PHI) | Remarks |
|------------------|-------|--------------------|------------------------------|---|---|--------------------------------------|--|
| Nematode (cont.) | | Chloropicrin 85.1% | PIC Plus Fumigant | Banded application: 108L / ha Broadcast application: Equivalent rate must be calculated to determine buffer zone – see label | Minimum of 5 days – see label for specific instructions | - | For field production. Early season soil treatment (pre-plant soil fumigation). Control of root knot and root lesion nematodes. Prior to application: soil should be in condition for planting with sufficient moisture to support seed germination. After application, leave soil undisturbed for 10-14 days. Wet soil slows diffusion of the fumigant and requires a longer exposure period. At the end of exposure period, aerate the soil. If heavy rains and lower temperatures occur during exposure period, work the soil several times for thorough aeration. Aerate for at least 5 days after opening row. For broadcast application: For broadcast, apply by means of chisels spaced no more than 30cm apart. Also effective against Thielaviopsis spp, Pythium spp, Fusarium Spp and Phytophthora spp. (see application instructions above). |





| Pest | Group | Active Ingredient | Pesticide Product Name | Rate | Restricted Entry Interval (REI) | Pre- harvest Interval (PHI) | Remarks |
|------------------|-------|---------------------------------|----------------------------------|--|--|--------------------------------------|--|
| Nematode (cont.) | | Oriental Mustard Seed Meal 100% | MUST GROW Crop Biofumigant | Field Application: 1121-2240 kg/ha Protected Production: 2.21-4.42 kg/m³ loose potting mix/soil | 14 days | | For protected or field use. Suppression of root knot nematode. Applied dry, as opposed to in suspension. Field production: Apply product using a calibrated spreader to distribute evenly to dry soil surface 14 days prior to seeding or transplanting. Incorporate to a depth of 10 cm by raking/tilling. Apply water immediately after product application so that the treated soil is well moistened to a depth of 10-15cm. Protected Production: mix product with loose planting mix/soil. Thoroughly incorporate. Activate pesticide by thoroughly watering the treated soil and restrict access for 14 days before moving into growing structure. Also effective against Pythium, Fusarium and Verticillium dahlia (see application instructions above). |



| Pest | Group | Active Ingredient | Pesticide Product Name | Rate | Restricted Entry Interval (REI) | Pre- harvest Interval (PHI) | Remarks |
|--|-------|--|------------------------------|---|--|--------------------------------------|---|
| Spider Mites, Scales, Thrips, Aphids, Whitefly | | Mineral Oil 80% | Suffoil-X | Spider Mites, Scales, Thrips, Aphids: 10-20 L/1000 L water Whiteflies: 20 L/1000 L water | 12 hours | 0 days | For indoor production. Deters feeding by aphids, control of spider mites, scales, thrips, and whitefly. Maximum 6 applications during plant lifespan. Begin applications when conditions are favourable for disease. Only use lower application rate (1%) during budding/flowering. Fully cover foliage while reducing run-off. Re-application interval is 14 days. Do not apply on new seedlings or clones less than 2 weeks old without having determined sensitivity (phytotoxicity). Minimum spray solution of 50 L/ha, maximum of 1000 L/ha. Do not apply on plants experiencing moisture stress or high temperatures (>32°C). Check the label for ideal timing instructions. Do not use in combination with products containing sulfur. Works against powdery mildew (see application |
| Whitefly, Aphids, Thrips, Two- spotted spider mites | | Beauveria bassiana strain ANT-03, contains at least 1 x10 ¹⁰ spores (conidia)/g | Bioceres EC | Whitefly, Aphids, Thrips: 2-4 mL/L Spider mites: 4mL/L | 4 hours, or until the spray dries | 0 days | instructions above). For indoor production. Reduces the number of whiteflies, aphids, and thrips. May be harmful for beneficial insects. Most effective when used before high insect populations develop. Begin treatment at the first appearance of the pest and re-apply within a 7-day interval. Can be applied every 3-5 days to combat an outbreak. 500 -1000 L/ha spray volume should be sufficient. It takes 5-7 days after the first application to observe control. |



| Pest | Group | Active Ingredient | Pesticide Product Name | Rate | Restricted Entry Interval (REI) | Pre- harvest Interval (PHI) | Remarks |
|-----------------------------|-------|--|------------------------------|--|--|--------------------------------------|--|
| Whitefly, Aphids, Thrips | | Beauvaria bassiana strain ANT-03 contains at least 1x10 ¹⁰ spores (conidia)/g | Bioceres G WP | 2-4 g/L | 4 hours, or until the spray dries | 0 days | For indoor production. Reduces the number of whiteflies, aphids, and thrips. May be harmful for beneficial insects. Begin treatment at the first appearance of the insect pest. Most effective when used before high insect populations develop. It takes 5-7 days after the first application to observe control. 500 to 1000 L of spray volume will typically be required for 1 ha. |
| | | Beauveria bassiana strain GHA, contains 4.4X10 ¹³ conidia/kg | Botanigard 22WP | Whiteflies, Aphids: 250 – 500 g/ 400 L spray volume Thrips: 0.5 – 1Kg/400L spray volume | 4 hours | 0 days | For indoor production. Controls whiteflies, aphids, and thrips. Avoid direct contact to beneficial insects. Apply at 5–10-day intervals. High insect populations, especially whiteflies and aphids, may require application at 2–5-day intervals. Spray until wet but avoid run-off. |
| | | | | Rice Root Aphids: 0.5 – 1 kg/ 400L spray volume | | 3-4 weeks prior to harvest | Apply 2-3 times, 3-5 days apart, in high pest- pressure situation. For low pest pressure, apply every 7-10 days. It is recommended to suspend the foliar application. Spray until wet but avoid run-off. Can be applied as a plant dip (see label for instructions) |
| | | Beauveria bassiana Strain GHA, contains 2.2 x 10 ¹³ conidia/kg | Botanigard ES | Whiteflies, Aphids: 0.5-1L per 400L spray volume Thrips: 2L/400L spray volume | 4 hours | 0 days | For indoor production. Controls whiteflies, aphids, and thrips. Avoid direct contact to beneficial insects. Apply at 5–10-day intervals, spraying until wet but avoiding run-off. High insect populations, especially whiteflies and aphids, may require application at 2–5-day intervals. Repeat applications for as long as pest pressure persists. |

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| Pest | Group | Active Ingredient | Pesticide Product Name | Rate | Restricted Entry Interval (REI) | Pre- harvest Interval (PHI) | Remarks |
|-----------------------------------|-------|---|------------------------------|------------|---|--------------------------------------|---|
| Whitefly, Twospotted spider mites | | Beauveria bassiana strain R444, contains 1x10 ⁸ CFU/g | Bassidor NEW 2023 | 0.5-1.0g/L | 4 hours, or until sprays have dried | 0 days | For indoor production. Controls whitefly and twospotted spider mite. Apply as full cover spray without excess runoff. Apply every 3-7 days, depending on crop and pest severity. Apply immediately after mixing and preferably when there is high humidity and low UV. |

Use the following web link to search for any pesticide label mentioned in this guide, or any other pesticide registered in Canada: http://pr-rp.hc-sc.gc.ca/ls-re/index-eng.php