Nursery: Disease & Insect Management

Disease and insect management challenge every grower who produces quality container nursery stock. Give your plants a healthy start and keep them clean throughout production with the BioWorks’ family of products. (See chart on reverse for timing and rates.)

RootShield® PLUS WP for Root Disease Control

- Provides long-term root protection for all stages of nursery stock
- Grows on the roots “shielding” them against root damaging soilborne Phytophthora.
- Active Ingredients: The beneficial fungi Trichoderma harzianum, strain T-22 and Trichoderma virens, G-41
- Cost effective: reduces or eliminates chemical root fungicide applications
- Grows on the roots within a pH range of 4 and 8 at soil temperatures of 9 to 36°C
- OMRI Listed
- 0-hour REI / 0-day pre-harvest interval

CEASE® and MilStop® for Foliar Disease Control

CEASE® (OMRI Listed)
- Prevents both fungal and bacterial diseases
- Controls Botrytis, powdery mildew, Pseudomonas, Xanthomonas, others
- Leaves no unsightly residues
- Active ingredients: Bacillus subtilis (strain QST 713)
- Safe for beneficial insects and bees
- OMRI Listed
- 4-hr REI / 0-day pre-harvest interval

MilStop® (OMRI Listed)
- Kills powdery mildew on contact
- Leaves no residues; dries quick, clean
- Active ingredient: Potassium Bicarbonate
- Cost effective, pre-formulated with surfactants
- Can be used in rotation with most chemical pesticides or as a stand alone fungicide
- Compatible with many beneficial insects
- OMRI Listed
- 4-hr REI / 0-day pre-harvest interval

BotaniGard® Mycoinsecticide

- Controls whiteflies, thrips, aphids, etc.
- Mycoinsecticide with unique mode of action from Beauveria bassiana strain GHS
- Spores work by direct contact with insect
- Compatible with IPM programs and beneficial insects
- Ideal resistance management tool
- 4-hr REI

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# Disease & Insect Management Program – Nursery

## Root Disease Prevention

**RootShield® PLUS WP**
- **Controls:** Phytophthora
- Drench containers immediately after planting or shifting up with RootShield PLUS WP.*
- **Rates:** 30 to 45 grams/100 litres

*RootShield PLUS WP can be applied at any stage of the crop to prevent disease.

## Foliar Disease Prevention

**CEASE®**
- **Controls:** Botrytis, powdery mildew, Pseudomonas, Xanthomonas and more
- **Rates:** 1.0 – 2.0 litres/100 L every 5-7 days

**MilStop®**
- **Controls:** Powdery mildew, Botrytis and other foliar diseases
- When conditions are right for powdery mildew or Botrytis, apply MilStop as a preventative.
- **Rates:** 2.8 kg/ha every 7-10 days
- If plants become infected with powdery mildew, use MilStop at the curative rate (note precautions on label). When control is achieved, switch to the preventative rates shown above.
- **Rates:** up to 5.6 kg/ha every 7-10 days

## Insect Control

**BotaniGard® ES and 22WP**
- **Controls:** Whitefly, aphid, thrips, etc.
- At first sign of insects (egg hatch or small larval instars) apply BotaniGard ES or 22WP at 3 to 10 day intervals. If pest pressure is high, combine initial applications with a contact insecticide or IGR and follow with another BotaniGard spray in 3 to 5 days, making at least 2 applications before returning to the longer spray interval.
- **Rates:**
  - Whiteflies, Aphids: 0.5 - 1 L/400 litres
  - Thrips: 2 L/400 L

**Use caution when making applications to open blooms, especially on varieties known to be sensitive. It is recommended that a small group of plants be tested for effects on open blooms before making applications to the whole crop. Always read and follow label directions.**