When planning your next season of spring annuals, give your plants a healthy start and keep them clean throughout production with the BioWorks family of products.

Root Disease Control

**RootShield® PLUS**
- Provides long-term root protection for all stages of growth
- Grows on the roots “shielding” them against root damaging fungi such as *Phytophthora, Fusarium, Pythium, Rhizoctonia, Cylindrocladium* and *Thielaviopsis*.
- Active Ingredients: Beneficial fungi *Trichoderma harzianum* strain T-22 and *Trichoderma virens* strain G-41
- Cost effective: reduces or eliminates chemical root fungicide applications
- Grows on the roots within a pH range of 4 – 8 at soil temperatures of 48 to 97°F
- 0-hour REI when soil incorporated / OMRI Listed.
- Granular formulation for media incorporation or wettable powder for drenching

Foliar Disease Control

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

**MilStop®** (1-hour REI, OMRI Listed)
- Kills powdery mildew on contact and prevents other disease
- 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
- 0-day pre-harvest interval

NemaShield® for Fungus Gnat Larval Control
- Especially useful in greenhouse propagation and transplant production
- Easy to use dispersible formulation; apply with a sprayer or through an injector
- Active ingredient: *Steinernema feltiae* insect parasitic nematode
- No REI; No human toxicity; exempt from EPA labeling requirements
- Compatible with many pesticides, including insecticides

Insect and Mite Control

**BotaniGard®** (4-hour REI, Organic formulations available)
- Controls whiteflies, thrips, aphids, etc.
- Mycoinsecticide with unique mode of action from *Beauveria bassiana* strain GHA
- Spores work by direct contact with insect
- Compatible with IPM programs and beneficial insects
- Ideal resistance management tool

**SuffOil-X®** (4-hour REI, OMRI Listed)
- Suffocates and kills eggs, larvae, nymphs and soft bodied insects, mites
- Unique pre-emulsified formulation stays in suspension better than other oils
- Smaller oil particles provide uniform coverage with less chance of phytotoxicity

**Molt-X®** (4-hour REI)
- Protects against both foliar and soil-borne pests
- Multiple modes of action
- No phytotoxicity on most plants
- Generally safe on beneficial insects and bees
- Excellent for tank mixing or rotating with BotaniGard and SuffOil-X
# Disease & Insect Management Program

## Root Disease Prevention

**Use on Stock Plants, in Propagation/Cuttings/Seeds & when Finishing Crops**

<table>
<thead>
<tr>
<th>Product and Application</th>
<th>Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RootShield® PLUS WP, RootShield® PLUS Granules</strong>&lt;br&gt;Controls: Phytophthora, Rhizoctonia, Pythium, Fusarium, Thielaviopsis</td>
<td>1.5 to 2.0 lb / cu yd&lt;br&gt;Drench with RootShield PLUS WP immediately after seeding/planting*</td>
</tr>
</tbody>
</table>

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

## Foliar Disease Prevention

**Use on Stock Plants, in Propagation/Cuttings/Seeds & when Finishing Crops**

<table>
<thead>
<tr>
<th>Product and Application</th>
<th>Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CEASE®</strong>&lt;br&gt;Controls: Botrytis, powdery mildew, Erwinia, Pseudomonas, Xanthomonas</td>
<td>4 qt / 100 gal every 5-7 days</td>
</tr>
</tbody>
</table>

**MilStop®**<br>Controls: Powdery mildew, Botrytis and other diseases

<table>
<thead>
<tr>
<th>Controls: Powdery mildew, Botrytis, and other diseases</th>
<th>Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>When conditions are right for powdery mildew or Botrytis, apply MilStop as a preventative.</td>
<td>1.25 lb to 2.5 lb / 100 gal every 7-10 days</td>
</tr>
</tbody>
</table>

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.

## Insect Control

**Use in Propagation/Cuttings/Seeds & when Finishing Crops**

<table>
<thead>
<tr>
<th>Product and Application</th>
<th>Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NemaShield®</strong>&lt;br&gt;Controls: Fungus gnat larvae and thrips (WFT) pupae and pre-pupae</td>
<td>One 100 million packet / 3,400 sq ft</td>
</tr>
</tbody>
</table>

**Re-application rates and intervals**

For light or heavy infestations, re-apply in 14 to 21 day intervals at the light infestation rate. For heavy infestations on highly susceptible crops or newly propagated cuttings, follow the rate recommended above and re-apply at the light infestation rate when necessary after 5 to 6 weeks.

**BotaniGard® ES, BotaniGard® 22WP, Mycotrol® ESO, and Mycotrol® WPO**<br>Controls: whitefly, aphid, thrips, etc.

<table>
<thead>
<tr>
<th>Insects</th>
<th>Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whiteflies, Aphids, Mealybugs:</td>
<td>½ to 1 qt(lb) / 100 gal</td>
</tr>
<tr>
<td>Thrips:</td>
<td>1 to 2 qt(lb) / 100 gal</td>
</tr>
<tr>
<td>Other labeled insects:</td>
<td>½ to 2 qt(lb) / 100 gal</td>
</tr>
</tbody>
</table>

**SuffOil-X®**<br>Controls: mites, whitefly, aphids, etc.

Follow all precautions and recommendations for applying horticultural oils. 1 to 2 gal / 100 gal

**Molt-X®**<br>Controls both foliar and soil borne pests

Combine or rotate with BotaniGard for an effective control strategy. Maintain pH of diluted mixture at between pH 5.5 - 6.5. 8 to 10 oz / 100 gal

**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.**

---

**BioWorks • 100 Rawson Road, Suite 205 • Victor, New York 14564**<br>**800-877-9443 • www.bioworksinc.com**

©2016 BioWorks, Inc.