We deliver reliable biological solutions to control pests, prevent disease and improve plant health. For organic and conventional production, our products help you improve yield and grow the highest quality cannabis.

**CROP GUIDE CANNABIS**

**US INDOOR PRODUCTION**

<table>
<thead>
<tr>
<th>PEST/DEFICIENCY</th>
<th>PROPAGATION/SEED/CLONES</th>
<th>STOCK PLANTS/ VEGETATIVE</th>
<th>FLOWERING</th>
<th>HARVEST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major root rot and wilt diseases</td>
<td>RootShield® PLUS® WP, RootShield PLUS® G</td>
<td>RootShield® PLUS® WP</td>
<td></td>
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<tr>
<td>Powdery Mildew, Fungal Leaf Spots</td>
<td>MilStop® SP, CEASE®, PERpose Plus®</td>
<td>CEASE, PERpose Plus</td>
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<tr>
<td>Bacterial Leaf Spots</td>
<td></td>
<td></td>
<td>BotryStop® WP, MilStop SP + CEASE</td>
<td>PERpose Plus</td>
</tr>
<tr>
<td>Botrytis</td>
<td>BotryStop® WP, MilStop SP + CEASE</td>
<td>BotryStop WP, MilStop SP + CEASE</td>
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<tr>
<td>General sanitation; Algae control; Foliar &amp; soil borne fungal &amp; bacterial diseases</td>
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<td></td>
<td>PERpose Plus</td>
</tr>
<tr>
<td>Aphids, Thrips, Whiteflies</td>
<td>EpiShield™</td>
<td>Molt-X®, SuffOil-X®, EpiShield</td>
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<td></td>
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<tr>
<td>Mites</td>
<td>EpiShield</td>
<td>SuffOil-X, EpiShield</td>
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<tr>
<td>Caterpillars</td>
<td></td>
<td>Molt-X</td>
<td></td>
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<tr>
<td>Fungus Gnats</td>
<td></td>
<td>NemaShield®, Molt-X</td>
<td></td>
<td></td>
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<tr>
<td>Increase root development, Enhance nutrient uptake, Improve stress tolerance</td>
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<td>ON-Gard®</td>
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</tbody>
</table>

These products are not approved for use on marijuana (>0.3% THC Cannabis) in all regions. Check with your State Regulatory Agency, Tribe, or county for regulations regarding use of these products on marijuana prior to purchasing or using. Please refer to product labels for complete application instructions. Always read and follow label directions. Additional technical information is available on our website bioworksinc.com or contact expert@bioworksinc.com.
<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>REI, PHI</th>
<th>OMRI</th>
<th>PEST/DEFICIENCY</th>
<th>RECOMMENDED RATE</th>
<th>TYPE OF APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DISEASES</strong></td>
<td></td>
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<tr>
<td>RootShield PLUS* WP²</td>
<td>4-hour 0-day</td>
<td>Yes</td>
<td>Phytophthora, Fusarium, Pythium, Rhizoctonia and other soilborne pathogens</td>
<td>Drench: 6 oz/100 gal; or 1.6 g/1 gal (1 level tsp)</td>
<td>Drench in propagation at seeding/sticking clones. Re-apply at transplanting and 6-8 weeks later. In hydroponic systems, re-apply every 4 weeks.</td>
</tr>
<tr>
<td>RootShield PLUS* G²</td>
<td>4-hour 0-day</td>
<td>Yes</td>
<td>Powdery Mildew, Botrytis, Rust, Septoria, Fungal Leaf Spots</td>
<td>1.5 lb/1 cu yd of mix; or 0.9 oz (25 g or 3 Tbsp) /1 cu ft of mix</td>
<td>Incorporate into growing media prior to planting. Apply RootShield PLUS+ WP 6-8 weeks after seeding or sticking clones at rates shown above.</td>
</tr>
<tr>
<td>MilStop SP</td>
<td>1-hour 0-day</td>
<td>Yes</td>
<td>Powdery Mildew, Botrytis, Rust, Septoria, Fungal Leaf Spots</td>
<td>1.25-2.5 lb/100 gal/acre; or 0.25-0.5 oz/1 gal (7–14 ml or 0.5–1 Tbsp)</td>
<td>Foliar spray every 1-2 weeks. Spray to glisten, not runoff. Do not add surfactant. Do not lower pH &lt; 8.0. Suspend applications 3 weeks prior to harvest.</td>
</tr>
<tr>
<td>CEASE</td>
<td>4-hour 0-day</td>
<td>Yes</td>
<td>Powdery Mildew, Botrytis, Rust, Septoria, Fungal and Bacterial Leaf Spots</td>
<td>4-6 qt/100 gal; or 1.3-1.9 fl oz/1 gal (38–76 ml or 2.5–3.75 Tbsp)</td>
<td>Weekly foliar spray. Shake well before use. Can tank mix with MilStop SP at 1.25 lb/100 gal. Suspend applications 3 weeks prior to harvest.</td>
</tr>
<tr>
<td>PERpose Plus¹</td>
<td>0-1-hour 0-day</td>
<td>Yes</td>
<td>Algae; Foliar and soil borne fungal and bacterial diseases; General sanitation</td>
<td>Cutting dip: 1:300 Algae control: 1:100 Foliar spray: 1:100 – 1:300</td>
<td>Preventative foliar spray at onset of flowering. Use low rate of a surfactant for best coverage. Repeat on 7-10-day intervals or as needed. Suspend applications 4 weeks prior to harvest.</td>
</tr>
<tr>
<td>BotryStop WP</td>
<td>4-hour 0-day</td>
<td>Yes</td>
<td>Botrytis, Sclerotinia</td>
<td>3 lb/100 gal/acre; or 0.48 oz/1 gal (13.6 g or 5 tsp)</td>
<td>Foliar: spray to glisten on a 7-10-day interval. Suspend foliar applications 3 weeks prior to harvest. Drench: use 1 pint/gallon of media; avoid leaching; reapply weekly, 3 times. Optimum pH is 5.5 to 6.5.</td>
</tr>
<tr>
<td>Molt-X²</td>
<td>4-hour 0-day</td>
<td>Yes</td>
<td>Aphids, Thrips, Whiteflies, Caterpillars</td>
<td>Foliar spray: 8-10 fl oz/100 gal; or 2.4-3 ml/1 gal Drench: 8 fl oz (indoor) or 10 fl oz (outdoor)</td>
<td>Foliar: spray to glisten on a 7-10-day interval. Suspend foliar applications 3 weeks prior to harvest. Drench: use 1 pint/gallon of media; avoid leaching; reapply weekly, 3 times. Optimum pH is 5.5 to 6.5.</td>
</tr>
<tr>
<td>SuffOil-X</td>
<td>4-hour 0-day</td>
<td>Yes</td>
<td>Mites, Aphids, Thrips, Whiteflies; Powdery Mildew</td>
<td>Foliar spray: 1-2 gal/100 gal; or 1.3-2.6 fl oz/1 gal (38-76 ml or 2.5-5 Tbsp)</td>
<td>Spray to glisten, avoid runoff, on 7-10-day intervals. Do not exceed 1% rate in flower. Ensure crop dries in 1-2 hours. Avoid high heat, humidity. Avoid use with sulfur. Suspend applications 1 week prior to harvest.</td>
</tr>
<tr>
<td>EpiShield</td>
<td>N/A</td>
<td>No</td>
<td>Mites, Aphids, Thrips, Whiteflies, Mealybugs</td>
<td>Foliar spray 9-12 fl oz/100 gal Dip rate 2.7 ml/gal</td>
<td>Foliar spray to glisten on 5-7-day interval or as needed. Do not exceed 9 fl oz rate in flower. Dip unrooted cuttings for 10-30 seconds while moving plants around in solution. Suspend applications 1 week prior to harvest.</td>
</tr>
<tr>
<td>NemaShield</td>
<td>N/A</td>
<td>N/A</td>
<td>Fungus Gnats</td>
<td>100 million/1100–3400 ft²</td>
<td>Apply as a drench to seed/rooting trays. Apply to the substrate every 14 days or as needed.</td>
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<tr>
<td><strong>INSECTS / MITES</strong></td>
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<tr>
<td><strong>NUTRITION</strong></td>
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<tr>
<td>ON-Gard (5-0-0)³</td>
<td>N/A</td>
<td>Yes</td>
<td>Nutrition supplement and stress reduction</td>
<td>Foliar spray or drench: 16-32 fl oz/100 gal; or 5-10 ml/1 gal (1-2 tsp)</td>
<td>Apply to stock plants prior to taking cuttings. Pre-plant cutting dip at 1%, or drench at planting. Foliar spray or drench on 2-3-week intervals. Suspend applications at nutrient flushing.</td>
</tr>
</tbody>
</table>

Please refer to product labels for complete application instructions. Always read and follow label directions.

¹Not available for use in CA; ²Not available for use in AK; ³Not labeled for use in MT, ND, SD, WY.

Please refer to product labels bioworksinc.com for fogging application details and rates.

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