



# Cannabis Indoor Production in Canada

*Disease, Insect & Nutrition  
Management*

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

PEST/DEFICIENCY	CROP STAGE			
	PROPAGATION SEEDING/ROOTING	VEGETATIVE	FLOWERING	PRE-HARVEST
<b>DISEASES</b>  Major damping off and root rot diseases (root applications)  Botrytis (foliar applications)  Powdery Mildew	<b>RootShield PLUS<sup>+</sup> WP, RootShield PLUS<sup>+</sup> G</b>	<b>RootShield PLUS<sup>+</sup> WP</b>		
			<b>RootShield® HC</b>	
		<b>MilStop, SuffOil-X</b>		
<b>INSECTS / MITES</b>  Aphids, Scales, Thrips, Whiteflies, Mites		<b>SuffOil-X</b>		
<b>NUTRITION</b>  Increase root development, Enhance nutrient uptake, Improve stress tolerance	<b>ON-Gard</b>			

**DISEASES**

PRODUCT	REI, PHI	ORGANIC INPUT	PEST/DEFICIENCY	RECOMMENDED RATE	TYPE OF APPLICATION
<b>RootShield® PLUS<sup>+</sup> WP (soil drench)</b>	4-hour, 0-day	Yes	Major damping off and root rot diseases caused by: <i>Pythium spp.</i> , <i>Rhizoctonia spp.</i> , <i>Fusarium spp.</i> , <i>Phytophthora spp.</i>	30-60 g/100 L	Drench in propagation at seeding/sticking clones (2-4 days after sticking, once callus has formed.). Drench at transplanting to larger containers. Reapply after 8 weeks if disease is expected. When disease pressure is high, use the highest rate and shortest interval.
<b>RootShield® PLUS<sup>+</sup> G (mix into soil)</b>	0-hour, 0-day	Yes		600-1200 g/m <sup>3</sup> of soil/potting mix	Mix uniformly into soil/potting mix immediately before sowing seed or planting. Apply RootShield PLUS <sup>+</sup> WP 8 weeks after seeding or sticking clones at rates shown above.
<b>RootShield® HC (foliar application)</b>	4-hour, 0-day	Yes	Botrytis blight: <i>Botrytis cinerea</i>	Foliar spray: .375-1 kg/100 L (3.75-10 g/L)	Apply to foliage every 7-14 days, depending upon disease pressure. Spray to glisten; avoid runoff. Addition of a nonionic surfactant is recommended. Suspend applications 3-4 weeks prior to harvest.
<b>NOTE: RootShield® HC</b> may also be used for suppression of root rot on indoor Cannabis, and for Botrytis and root rot on Field-Grown Cannabis and Field-Grown Hemp. See label for details: <a href="#">RootShield HC label - Canada</a> .					
<b>MilStop®</b>	4-hour, 0-day	Yes	Powdery Mildew	0.28 kg/100 L/1000 m <sup>2</sup> (2.8 g/L) or 2.8 kg/1000 L/hectare	Foliar spray every 7-14 days. Obtain complete coverage; spray to glisten, but avoid runoff. Do not add surfactant. Do not lower pH < 8.0. Ultra Low Volume Application – <a href="#">see label for details</a> . Suspend applications 3 weeks prior to harvest.
<b>NOTE: MilStop®</b> may also be used for suppression of powdery mildew on Field-Grown Cannabis and Field-Grown Hemp. See label for details: <a href="#">MilStop label - Canada</a> .					
<b>SuffOil-X®</b>	12-hour, 12-hour	Yes	Mites, Aphids, Scales, Thrips, Whiteflies; Powdery Mildew	1-2 L/100 L or 1-2% by volume	Spray to glisten, avoid runoff, on 14-day intervals. Do not exceed 1% rate in flower. Ensure crop dries in 1-2 hours. Avoid high heat, humidity. Avoid use with sulphur. Maximum of 6 applications. Suspend applications 1 week prior to harvest.
<b>ON-Gard® (5-0-0)</b>	N/A	Yes	Nutrition supplement and stress tolerance	Foliar spray or drench: 250 mL/100 L	Apply to stock plants prior to taking cuttings. Pre-plant cutting dip at 1%, or drench at planting. Foliar spray or drench on 2 to 3-week intervals. Suspend applications at nutrient flushing.

**INSECTS / MITES**
**NUTRITION**

Pest control products are to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use a product in a way that is inconsistent with the directions on the label. Refer to product labels for complete application details.

Additional technical information is available on our website [bioworksinc.com](http://bioworksinc.com) or contact [expert@bioworksinc.com](mailto:expert@bioworksinc.com).

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