

We deliver a full line of biological solutions to control pests, prevent disease and improve plant health. Our products help you grow all season and produce the highest quality poinsettias.



**BioWorks**  
DIVISION OF BIOFIRST GROUP

# CROP GUIDE POINSETTIAS

	PEST/DEFICIENCY	CROP STAGE			
		PRE-PLANT (STOCK PLANTS)	CUTTINGS (PROPAGATION)	VEGETATIVE	BRACT FORMATION
DISEASES	Soilborne Diseases	RootShield® PLUS <sup>+</sup> WP, RootShield PLUS <sup>+</sup> G			
	Powdery Mildew	CEASE®, MilStop® SP, PERpose Plus®		MilStop SP + CEASE, PERpose Plus	
	Poinsettia Scab or Spot Anthracnose				
	Bacterial Leaf Spot	PERpose Plus, CEASE, BotryStop® WP			
	Botrytis	CEASE, BotryStop WP, MilStop SP, PERpose Plus	BotryStop WP, CEASE, MilStop SP, PERpose Plus	BotryStop WP, MilStop SP + CEASE	
INSECTS / MITES	Aphids, Whiteflies, Thrips	Molt-X®, SuffOil-X®, EpiShield®, PRINCIPLE™ WP			
	Mealybugs	Molt-X, SuffOil-X, EpiShield			
	Fungus Gnats, Shore Flies	NemaShield, Molt-X			
	Mites	SuffOil-X, EpiShield			
NUTRITION	Efficient nutrient use and stress reduction	ON-Gard®			



ABOVE AND BEYOND IS WHERE WE BEGIN

	PRODUCT	REI, PHI	OMRI	PEST/DEFICIENCY	RECOMMENDED RATE	TYPE OF APPLICATION
DISEASES	RootShield PLUS <sup>+</sup> WP <sup>2</sup>	4-hour 0-day	Yes	Damping Off, <i>Pythium</i> , <i>Fusarium</i> , <i>Phytophthora</i> , <i>Rhizoctonia</i>	Drench: 6 oz/100 gal Dip (URC): 1.5 oz/5 gal	Drench at sticking or transplant, or Dip unrooted cuttings (URC) prior to sticking. Reapply at 10 weeks.
	RootShield PLUS <sup>+</sup> G <sup>2</sup>	4-hour 0-day	Yes		2 lb/cu yd	Incorporate in potting media.
	CEASE	4-hour 0-day	Yes	Powdery Mildew, Poinsettia Scab, Bacterial Leaf Spot	4-6 qt/100 gal	Foliar application every 3-7 days.
	MilStop SP	1-hour 0-day	Yes	Powdery Mildew, Poinsettia Scab	1.25-5.0 lb/100 gal	Foliar application every 7-14 days. At highest rate, apply every 14 days. Tank mix rates: CEASE + MilStop SP
	PERpose Plus <sup>1</sup>	0-1-hour 0-day	Yes	Powdery Mildew, Poinsettia Scab (Spot Anthracnose), Bacterial Leaf Spot	1/3-1fl oz/gal	1/3 fl oz/gal preventative application weekly; 1 fl oz/gal curative application. Mist in propagation: Apply 1:1000 for first week; 1:5000 for remainder of propagation.
	BotryStop WP	4-hour 0-day	Yes	<i>Botrytis</i> , Bacterial Leaf Spot <sup>1</sup>	2-4 lb/100 gal	Foliar application every 7-10 days.
INSECTS / MITES	PRINCIPLE WP	4-hour 0-day	Yes	Whiteflies, Aphids, Thrips, Mealybugs	0.5-2 lb/100 gal Dip rate: 0.25-0.5 oz/gal	Foliar application every 5-10 days. For thrips use 1-2 lb/100 gal.
	Molt-X <sup>2</sup>	4-hour 0-day	Yes		8-10 fl oz/100 gal	Foliar spray to glisten on a 7-10-day interval or as needed.
	SuffOil-X	4-hour 0-day	Yes	Mites, Aphids, Thrips, Whiteflies, Mealybugs	1-2 gal/100 gal	Foliar application every 7 days. Suppresses Powdery Mildew.
	EpiShield	N/A	No	Mites, Aphids, Thrips, Whiteflies, Mealybugs	Foliar spray 9-12 fl oz/100 gal Dip rate 2.7 ml/gal	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.
	NemaShield	N/A	N/A	Fungus Gnats, Shore Flies	100 million/1100-3400 ft <sup>2</sup>	Apply as a drench to the substrate as needed.
	Molt-X <sup>2</sup>	4-hour	Yes		8 fl oz/100 gal	Apply as a drench.
NUTRITION	ON-Gard (5-0-0) <sup>3</sup>	N/A	Yes	Nutrition supplement and stress reduction	Foliar Spray/Drench/Dip: 1 qt/100 gal	Pre-plant dip or drench at planting. Re-apply as a drench at 2-week intervals.

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

<sup>1</sup>Not available for use in CA; <sup>2</sup>Not available for use in AK; <sup>3</sup>Not labeled for use in MT, ND, SD, WY

Please refer to product labels [bioworksinc.com](http://bioworksinc.com) for fogging application details and rates.

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