



Mums

BioWorks delivers a full line of biological solutions to control pests, prevent disease and improve plant health. BioWorks products help you grow all season and produce the highest quality Chrysanthemums.

	PEST/DEFICIENCY	CROP STAGE			
		PRE-PLANT (STOCK PLANTS)	CUTTINGS (PROPAGATION)	VEGETATIVE	FLOWERING
DISEASES	Soilborne Diseases	RootShield <i>PLUS</i> ⁺ WP, RootShield <i>PLUS</i> ⁺ G			
	Powdery Mildew				
	Fungal Leaf Spot	CEASE, MilStop SP	CEASE, MilStop SP, PERpose Plus	MilStop SP + CEASE, PERpose Plus	
	Rust				
	Botrytis	CEASE		MilStop SP + CEASE, BotryStop	
	Bacterial Leaf Spot, Bacterial Blight	CEASE, PERpose Plus			
INSECTS / MITES	Aphids, Whiteflies	Molt-X, SuffOil-X	Molt-X, SuffOil-X		
	Thrips				
	Leafminer	Molt-X, SuffOil-X			
	Mealybugs	SuffOil-X, Molt-X			
	Fungus Gnats, Shore Flies	NemaShield, Molt-X, SuffOil-X			
	Mites	SuffOil-X			
NUTRITION	Efficient nutrient use and stress reduction	ON-Gard			
	Base fertilization, top dress	Verdanta EcoVita, N-Vita			
	Calcium (Ca) deficiency	ON-Gard CALCIUM			

DISEASES
INSECTS / MITES
NUTRITION

PRODUCT	REI, PHI	ORGANIC INPUT	PEST/DEFICIENCY	RECOMMENDED RATE	TYPE OF APPLICATION
RootShield® PLUS+ WP	4-hour, 0-day	OMRI	Pythium, Rhizoctonia, Fusarium, Phytophthora	Drench: 4-8 oz/100 gal Dip (URC): 1.5 oz/5 gal	Drench at sticking or transplant, or Dip unrooted cuttings (URC) prior to planting. Reapply at 10 weeks.
RootShield® PLUS+ G	4-hour, 0-day	OMRI		1.5-3 lb/cu yd	Incorporate with potting media.
MilStop® SP	1-hour, 0-day	OMRI	Powdery Mildew, Leaf Spots, Botrytis, Rust	1.25-5.0 lb/100 gal	Foliar application every 7-14 days. Tank mix rates: CEASE 4-6qt/100gal + MilStop SP 1.25-3 lb/100 gal.
CEASE®	4-hour, 0-day	OMRI	Powdery Mildew Botrytis, Rust; Fungal and Bacterial Leaf Spot, Bacterial Blight	4-6 qt/100 gal	Foliar application every 3-7 days.
PERpose Plus®	0-1-hour, 0-day	OMRI		1/3-1 fl oz/gal Mist: 1:1000-1:5000	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®	4-hour, 0-day	OMRI	Botrytis	2-4 lb/100 gal	Foliar application every 7-10 days.
Molt-X®	4-hour, 0-day	OMRI	Aphids, Whiteflies, Thrips, Mealybugs, Leafminer	8-10 fl oz/100 gal	For foliar application.
SuffOil-X®	4-hour, 0-day	OMRI	Mites, Aphids, Whiteflies, Thrips, Mealybugs, Leafminer, Fungus Gnats	1-2 gal/100 gal	Foliar application every 7 days. Suppresses Powdery Mildew, rust. Tank mix partner for leafminer control.
NemaShield®	N/A	N/A	Fungus Gnats, Shore Flies	100 million/1100-3400 ft ²	Apply as a drench to the substrate as needed.
Molt-X®	4-hour, 0-day	OMRI		8 fl oz/100 gal	Apply as a drench.
ON-Gard® (5-0-0)	N/A	OMRI	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. Low Volume (Fogging): 6.4-11.2 fl oz/ 3 L water.
Verdanta® EcoVita® (7-5-10)		OMRI	Base fertilization	3.5-6.5 lb/cu yd soil mix	Incorporate in substrate.
Verdanta® N-Vita® (9-4-3)		OMRI			
ON-Gard® CALCIUM (1-0-0 + 5% Ca)		OMRI	Calcium (Ca) deficiency	16 fl oz/100 gal	Apply as a foliar spray at 2 week intervals, as needed.



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

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