

CROP GUIDE MUMS

NUTRITION

		CRUP STAGE					
	PEST/DEFICIENCY	PRE-PLANT (STOCK PLANTS)	CUTTINGS (PROPAGATION)	VEGETATIVE	FLOWERING		
	Soilborne Diseases	RootShield® <i>PLUS</i> ⁺ WP, RootShield PLUS+ G					
	Powdery Mildew, Downy Mildew		CEASE, MilStop SP, PERpose Plus®	MilStop SP + CEASE, PERpose Plus			
	Fungal Leaf Spot	CEASE®, MilStop® SP					
	Rust						
	Botrytis	CEASE		BotryStop® WP, MilStop SP + CEASE			
	Bacterial Leaf Spot	CEASE, PERpose Plus, BotryStop WP					
	Aphids, Whiteflies, Thrips	Molt-X®, SuffOil-X®, EpiShield®, PRINCIPLE™ WP					
	Leafminer	Molt-X, SuffOil-X					
K	Mealybugs	Molt-X, SuffOil-X, EpiShield					
	Fungus Gnats, Shore Flies	NemaShield®, Molt-X, SuffOil-X					
	Mites	SuffOil-X, EpiShield					
	Efficient nutrient use and stress reduction	ON-Gard®					



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		PRODUCT	REI, PHI	OMRI	PEST/DEFICIENCY	RECOMMENDED RATE	TYPE OF APPLICATION
INSECTS / MITES DISEASES	**	RootShield <i>PLUS</i> + WP²	4-hour 0-day	Yes	Pythium, Fusarium, Phytophthora, Rhizoctonia	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 <i>PLUS</i> ⁺ G ²	4-hour 0-day	Yes		1.5-3 lb/cu yd	Incorporate in potting media.
		MilStop SP	1-hour 0-day	Yes	Powdery Mildew, Leaf Spots, <i>Botryti</i> s, Rust	1.25-5.0 lb/100 gal	Foliar application every 7-14 days. Tank mix rates: CEASE + MilStop SP
		CEASE	4-hour 0-day	Yes	Powdery Mildew, Botrytis, Rust, Fungal and Bacterial Leaf Spot, Bacterial Blight	4-6 qt/100 gal	Foliar application every 3–7 days. Safe for use with young seedlings.
		PERpose Plus	O-1-hour O-day	Yes		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 WP	4-hour 0-day	Yes	Botrytis, Bacterial Leaf Spot¹	2-4 lb/100 gal	Foliar application every 7-10 days.
		PRINCIPLE WP1	4-hour 0-day	Yes	Aphids, Whiteflies, Thrips	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 ²	4-hour 0-day	Yes	Aphids, Whiteflies, Thrips, Mealybugs,	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, Leafminers, Fungus Gnats	1-2 gal/100 gal	Foliar application every 7 days. Suppresses Powdery Mildew, rust. Tank mix partner for leafminer control.
		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 intervals or as needed. Dip unrooted cuttings for 10-30 seconds while moving plants around in solution.
		NemaShield	N/A	N/A	Fungus Gnats, Shore	100 million/1100-3400 ft²	Apply as a drench to the substrate as needed.
		Molt-X²	4-hour 0-day	Yes	Flies	8 fl oz/100 gal	Apply as a drench.
NUTRITION	**	ON-Gard (5-0-0)³	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. Low Volume (Fogging): 6.4-11.2 fl oz/ 3 L water.

Please refer to product labels for complete application instructions. Always read and follow label directions. 'Not available for use in CA; 'Not available for use in AK; 'Not 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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