

CROP GUIDE CACTI AND SUCCULENTS

	PEST/DEFICIENCY	CROP STAGE				
	PESI/DEFICIENCY	PREPLANT	TRANSPLANTING	VEGETATIVE	FLOWERING	
SEASES	Soilborne Diseases	RootShield® <i>PLUS†</i> Granules		RootShield® <i>PLUS</i> ⁺ WP		
	Powdery Mildew			CEASE®, MilStop® SP, PERpose Plus*, SuffOil-X®		
<u> </u>	<i>Botrytis</i> Gray Mold			BotryStop® WP, CEASE, MilStop SP, PERpose Plus		
	Bacterial & Fungal Leaf Spots	CEASE, BotryStop WP, PERpose Plus				
INSECTS/ MITES	Aphids & Whiteflies	EpiShield®, PRINCIPLE™ WP		Molt-X®, SuffOil-X, EpiShield, PRINCIPLE WP		
	Spider/Eriophyid Mites	EpiShield		SuffOil-X, EpiShield		
	Fungus gnats & Shore Flies			NemaShield®, Molt-X		
	Mealybugs & Scales	EpiShield	Molt-X, SuffOil-X, EpiShield		d	
	Thrips		EpiShield, PRINCIPLE WP		Molt-X, SuffOil-X, NemaShield, EpiShield, PRINCIPLE WP	
	Weevils			Molt-X, NemaShield HB		
	Caterpillars			Molt-X, PRINCIPLE WP		
NUTRITION	Root and foliar development, efficient nutrient use, stress reduction and improved shelf-life	ON-Gard®				





	PRODUCT	REI, PHI	OMRI	PEST/DEFICIENCY	RECOMMENDED RATE	TYPE OF APPLICATION	
	RootShield <i>PLUS</i> ⁺ Granules	4-hour 0-day	Yes	Phytophthora, Fusarium, Pythium, Rhizoctonia	1.5 – 3.0 lbs/ cubic yard	Mix with soil prior to transplanting. Ensure inoculated substrate is used within two weeks for best results.	
	RootShield <i>PLUS</i> * WP	4-hour 0-day	Yes	and other soilborne pathogens	Dip: 6 oz/20 gal; Drip: 8 oz/100 gal (1-2 lb/A)	Drip irrigation application: 4 weeks after transplant, and at 8–12 weeks, depending on disease pressure.	
**	MilStop SP	1-hour 0-day	Yes	Powdery Mildew, <i>Botryti</i> s Gray Mold,	1.25-2 lbs/100 gal	Spray at 1-2 week intervals until conditions are no longer favorable for disease. Do not lower pH (8.0 is needed).	
	CEASE	4-hour 0-day	Yes	Fungal and bacterial pathogens	4-6 qt/100 gal	Foliar application every 3-7 days	
	BotryStop WP	4-hour 0-day	Yes	Botrytis Gray Mold, Bacterial Pathogens	2-4 lbs/100 gal	Begin application at or before flowering. Repeat on 7-10 day intervals or as needed up until harvest.	
	PERpose Plus	0-1-hour 0-day	Yes	Sanitation, Fungal and Bacterial Pathogens	Foliar application: 1/3-1 fl oz/gal	Foliar preventative application: 1/3 fl oz/gal weekly; Foliar curative rate: 1 fl oz/gal for 1-3 consecutive days.	
	PRINCIPLE WP1	4-hour 0-day	Yes	Whiteflies, Aphids, Thrips, Caterpillars	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.	
	NemaShield	N/A	N/A	Fungus gnats, Shore flies, Thrips	100 million/1100-3400 ft²	Apply as a drench with irrigation water.	
	NemaShield HB	N/A	N/A	Weevils	100 million/1100-3400 ft²	Apply as a drench around the stem of the plant with irrigation water.	
	Molt-X	4-hour 0-day	Yes	Aphids, Whiteflies, Mealybugs, Fungus gnats, Thrips	8-10 fl oz/acre	For foliar application. Tank mix contact insecticides for added efficacy. In tank mix, use ½ rate.	
	SuffOil-X	4-hour 0-day	Yes	Spider/Eriophyid Mites, Aphids, Whiteflies, Thrips	1-2 gal/100 gal	Foliar application as needed. DO NOT use in combination with or immediately before or after spraying with any product containing sulfur.	
	EpiShield	N/A	No	Mites, Aphids, Thrips, Whiteflies, Mealybugs	9-12 fl oz/100 gal	Foliar spray to glisten on 5-7-day interval or as needed. Dip unrooted cuttings for 10-30 seconds and let dry.	
**	ON-Gard 5-0-0	N/A	Yes	Nutrition supplement and stress tolerance	Dip: 1% v/v; 16-64 fl oz/acre	Foliar application or fertigation. Apply every 7-14 days on succulents and every 14-21 days along with irrigation cycles.	

Please refer to product labels for complete application instructions. Always read and follow label directions. ¹ Not available for use in CA.

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