



Hydroponic Lettuce

BioWorks delivers a full line of 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 lettuce.

	PEST/DEFICIENCY	CROP STAGE			
		SEED	SEEDLING (3-5 LEAVES)	EARLY ROSETTE	HEAD FORMATION
DISEASES	Root Diseases	RootShield PLUS ⁺ WP			
	Powdery Mildew, Downy Mildew		MilStop SP + CEASE, PERpose Plus		
	Botrytis		CEASE + MilStop, BotryStop, PERpose Plus		
	Sclerotinia Rot		CEASE, BotryStop, PERpose Plus		
INSECTS / MITES	Aphids, Whiteflies		BotaniGard + Molt-X, SuffOil-X		
	Thrips		BotaniGard + Molt-X, BotaniGard MAXX, SuffOil-X		
	Lepidopterans		Molt-X, BotaniGard		
	Fungus Gnats, Shore Flies		NemaShield, Molt-X, BotaniGard MAXX		
NUTRITION	Efficient nutrient use and stress reduction		ON-Gard		
	Base fertilizer		Verdanta EcoVita		
	Calcium (Ca) deficiency		ON-Gard CALCIUM		
	Iron (Fe) deficiency		Verdanta OFE		
	Potassium (K) deficiency		Verdanta PL-2		

	PRODUCT	REI	PHI	PEST/DEFICIENCY	RECOMMENDED RATE	TYPE OF APPLICATION
DISEASES	RootShield® PLUS ⁺ WP*	4-hour	0-day	Root Diseases	4-8 oz/100 gal	Drench at seeding and transplant.
	CEASE®**	4-hour	0-day	Botrytis, Powdery Mildew, Downy Mildew	4-6 qt/100 gal	Foliar application every 3-7 days.
	MilStop® SP*	1-hour	0-day		1.25-5 lb/100 gal	Foliar application every 7-14 days. Tank mix rates: CEASE 4-6 qt/100 gal + MilStop SP 1.25-3.0 lb/100 gal.
	PERpose Plus®**	0-1-hour	0-day		1/3-1 fl oz/gal	1/3 fl oz/gal preventative foliar application weekly; 1 fl oz/gal curative application.
	BotryStop®*	4-hour	0-day	Botrytis, Sclerotinia Rot	2-4 lb/100 gal	Foliar application every 7-10 days.
INSECTS / MITES	BotaniGard® MAXX	12-hour	0-day	Aphids, Thrips, Lepidopterans, Whiteflies	0.5-1 qt/100 gal	Foliar application every 5-10 days.
	BotaniGard® / Mycotrol®†	4-hour	0-day		WP: 0.5-2 lb/100 gal	Foliar application every 5-10 days. For thrips use 1-2 lb/100 gal.
					ES: 0.5-2 qt/100 gal	Foliar application every 5-10 days. For thrips use 1-2 qt/100 gal.
	Molt-X®*	4-hour	0-day		8-10 fl oz/100 gal	Foliar application every 5-10 days. In tank mix, use 1/2 rate.
	SuffOil-X®*	4-hour	0-day	Mites, Aphids, Thrips, Whiteflies	1-2% v/v	Foliar application every 7 days. Suppresses powdery mildew.
	NemaShield®	N/A	N/A		100-300 million/100 gal	Drench on plug trays.
	Molt-X®*	4-hour	0-day	Fungus Gnats, Shore Flies	8 fl oz/100 gal	Apply as a drench. In tank mix, use 1/2 rate.
BotaniGard® MAXX	12-hour	0-day		0.5-1 qt/100 gal	Foliar application every 7-10 days to eliminate adults.	
NUTRITION	ON-Gard®* (5-0-0)	N/A	N/A	Nutrition supplement and stress reduction	1 qt-2 gal/100 gal	Weekly foliar spray: 1 qt in seedling stage, increase through head formation stage, up to 2 gal. Fog rates: 6.4-11.2 fl oz/3 L water.
	Verdanta® EcoVita®* (7-5-10)			Base fertilization	2-5 lb/yard ³	Incorporate in substrate.
	ON-Gard® CALCIUM* (1-0-0 + 5% Ca)			Calcium (Ca) deficiency	8-16 fl oz/100 gal	Weekly foliar application.
	Verdanta® PL-2* (2-0-6)			Potassium (K) deficiency	30-40 fl oz/100 gal	Apply 2 times weekly as a K supplement with low salt index.
	Verdanta® OFE (3-0-0 + 3% Fe)			Iron (Fe) deficiency	1 qt/100 gal	Foliar application as needed.

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



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