



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	HEAD DEVELOPMENT
DISEASES	Root Diseases	RootShield <i>PLUS</i> ⁺ WP			
	Powdery Mildew, Downy Mildew	MilStop SP + CEASE, PERpose Plus			
	Botrytis	CEASE + MilStop, BotryStop WP, PERpose Plus			
	Sclerotinia Rot	CEASE, BotryStop WP, PERpose Plus			
INSECTS / MITES	Aphids, Whiteflies	Molt-X, SuffOil-X			
	Thrips	Molt-X, SuffOil-X			
	Lepidopterans	Molt-X			
	Fungus Gnats, Shore Flies	NemaShield, Molt-X			
NUTRITION	Efficient nutrient use and stress reduction	ON-Gard			
	Base fertilizer	Verdanta EcoVita			
	Calcium (Ca) deficiency	ON-Gard CALCIUM			

	PRODUCT	REI, PHI	ORGANIC INPUT	PEST/DEFICIENCY	RECOMMENDED RATE	TYPE OF APPLICATION
DISEASES	RootShield® PLUS+ WP	4-hour, 0-day	OMRI	Root Diseases	4-8 oz/100 gal	Drench at seeding and transplant.
	CEASE®	4-hour, 0-day	OMRI	Botrytis, Powdery Mildew, Downy Mildew	4-6 qt/100 gal	Foliar application every 3-7 days.
	MilStop® SP	1-hour, 0-day	OMRI		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	OMRI		1/3-1 fl oz/gal preventative foliar application weekly; 1 fl oz/gal curative application.	
	BotryStop® WP (BotryStop® in CA)	4-hour, 0-day	OMRI	Botrytis, Sclerotinia Rot	2-4 lb/100 gal	Foliar application every 7-10 days.
INSECTS / MITES	Molt-X®	4-hour, 0-day	OMRI	Aphids, Thrips, Lepidopterans, Whiteflies	8-10 fl oz/100 gal	Foliar application every 5-10 days.
	SuffOil-X®	4-hour, 0-day	OMRI	Mites, Aphids, Thrips, Whiteflies	1-2% v/v	Foliar application every 7 days. Suppresses powdery mildew.
	NemaShield®	N/A	N/A	Fungus Gnats, Shore Flies	100-300 million/100 gal	Drench on plug trays.
	Molt-X®	4-hour, 0-day	OMRI		8 fl oz/100 gal	Apply as a drench.
NUTRITION	ON-Gard® (5-0-0)	N/A	OMRI	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/yards ³	Incorporate in substrate.
	ON-Gard® CALCIUM (1-0-0 + 5% Ca)			Calcium (Ca) deficiency	8-16 fl oz/100 gal	Weekly foliar application.

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



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