

# MATT HOSTETLER PRODUCT GUIDE

## CENTRAL PLAINS REGION






FUNGICIDE PRODUCTS	ACTIVE INGREDIENT	DESCRIPTION	CROPS	DISEASES	RATES	NOTES
	<i>Bacillus mycoides</i> iswolate J	The first in a new class of biological disease control solutions that switches on the plant's built-in immune defenses by eliciting an IR response to help fight against bacterial, viral and fungal diseases.	Sugar beets	<i>Cercospora</i>	1-4.5/100 gal	
			Potatoes	PVY, Early Blight, White Mold	1-4.5/100 gal	
			Dry Beans	White Mold	1-4.5/100 gal	
			Pome	Fire Blight	1-4.5/100 gal	
	<i>Bacillus amyloliquefaciens</i> strain D747 (BaD747)	A broad spectrum fungicide boasting five modes of action to foliar and soil born bacterial and fungal diseases.	Potatoes	<i>Rhizoctonia, Pythium</i> , Early Blight, White mold	1-2qts/acre .5-1lb/acre	
			Sugar beets	<i>Rhizoctonia, Cercospora</i>	1-2qts/acre .5-1lb/acre	
			Dry beans	<i>Rhizoctonia, Pythium</i> , White Mold	1-2qts/acre .5-1lb/acre	
			Pome	Fire Blight, Powdery Mildew	1-2qts/acre .5-1lb/acre	
			Onions	<i>Botrytis, Fusarium</i> , Purple blotch, Downy Mildew	1-2qts/acre .5-1lb/acre	
			Corn	Common rust, Southern leaf blight	1-2qts/acre .5-1lb/acre	
			Soybeans	<i>Rhizoctonia, Pythium</i> , White Mold	1-2qts/acre .5-1lb/acre	
			Mint	White Mold	1-2qts/acre .5-1lb/acre	
			Canola	White Mold	1-2qts/acre .5-1lb/acre	
			Hops	Powder, <i>Phytophthora</i> Downy Mildew	1-2qts/acre .5-1lb/acre	
			Potatoes	Early Blight	1.5-5lbs/acre	
			Onions	<i>Botrytis</i> , Downy Mildew, Purple Blotch, and Bacterial Blight	1.5-5lbs/acre	
			Sugar beets	<i>Cercospora</i>	1.5-5lbs/acre	
	Copper Hydroxide	A trusted, proven and reliable copper hydroxide containing bioactive technology for better control of diseases at lower rates.	Onion	Downy Mildew, Purple Blotch, and Bacterial Blight	.75-1.5lbs/acre	
			Potatoes	Early Blight	.50-1.75lbs/acre	
			Sugar beets	<i>Cercospora</i>	5.25-7.75lbs/acre	
	Copper octanoate	A "copper soap" that provides the efficacy of coppers with a reduced risk of russet and phytotoxicity.	Pome fruit	Fire Blight	.75-1.5lbs/acre	
			Hops	Powdery and Downy Mildew	.75-1.25lbs/acre	



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**DISCLAIMER:** This technical bulletin does not provide all of the necessary information needed to successfully use these products. Always read and follow the label before using these products.

INSECTICIDE PRODUCTS	ACTIVE INGREDIENT	DESCRIPTION	CROPS	PESTS	RATES	NOTES
 <b>MeloCon<sup>®</sup> LC</b> <small>BIOLOGICAL NEMATOCIDE</small>	<i>Purpureocillium lilacinum</i>	Features a beneficial, naturally occurring fungus, <i>Purpureocillium lilacinum</i> (synonym <i>Paecilomyces lilacinus</i> ) strain 251, a highly effective parasite that controls all stages of common plant-infecting nematodes, especially immobile stages such as eggs, cysts, and infectious juveniles.	Onions	Nematodes	10.25 fl oz/acre	
			Sugar beets	Nematodes	10.25 fl oz/acre	
			Potatoes	Nematodes	10.25 fl oz/acre	
			Pome fruit	Nematodes	10.25 fl oz/acre	
			Stone fruit	Nematodes	10.25 fl oz/acre	
 <b>PFR-97<sup>™</sup></b> <small>MICROBIAL INSECTICIDE</small>	<i>Isaria fumosorosea Apopka Strain 97</i>	Contains a naturally occurring fungus that controls soft bodied insects and spidermites.	Onions	Mites	1-2lbs/acre	
			Hops	Mites, Whitefly	1-2lbs/acre	
			Dry beans	Lygus	1-2lbs/acre	
			Soybeans	Lygus	1-2lbs/acre	
			Pome fruit	Mites, Mealy bugs	1-2lbs/acre	
			Stone fruit	Mites, Aphids	1-2lbs/acre	
			Potatoes	Potatoe psyllid	1-2lbs/acre	
			Corn	Mites, Aphids	1-2lbs/acre	
 <b>Neemix<sup>®</sup> 4.5 EC</b> <small>INSECT GROWTH REGULATOR</small>	<i>Azadirachtin</i>	An insect growth regulator containing the most potent azadirachtin formulation on the market. It controls immature nymphs insects by interfering with the molting process.	Onions	Thrips	Refer to rate card	
			Hops	Aphids, Whitefly	Refer to rate card	
			Stone fruit	Aphids	Refer to rate card	
			Pome fruit	Leaf hopper, Aphids, Mealy bug	Refer to rate card	
			Corn	Aphids	Refer to rate card	
			Potatoes	Leaf hopper, Aphids, Thrips	Refer to rate card	
 <b>CYD-X<sup>®</sup> HP</b> <small>INSECTICIDAL VIRUS</small>	<i>Cydia pomonella granulovirus</i>	Naturally occurring virus that infects and kills larvae of the codling moth ( <i>Cydia pomonella</i> ). Must be ingested by the larvae to be effective.	Pome fruit	Codling Moth	0.5-3oz/acre	
			 <b>Madex<sup>®</sup> HP</b> <small>INSECTICIDAL VIRUS</small>	<i>Cydia pomonella granulovirus V-22</i>	A naturally occurring virus to control the larvae of both codling moth and Oriental fruit moth. Must be ingested by the larvae to be effective.	Pome fruit
 <b>Gemstar<sup>®</sup> LC</b> <small>INSECTICIDAL VIRUS</small>	<i>Helicoverpa zea single capsid nucleopolyhedrovirus (HzSNPV)</i>	Naturally occurring virus that infects and kills larvae of <i>Heliothis</i> and <i>Helicoverpa</i> species.				Corn
			 <b>Seduce<sup>®</sup></b> <small>INSECT BAIT</small>	Spinosaad (a mixture of spinosyn A and spinosyn D)	A spinosaad bait that attracts and kills ants, earwigs, and cutworms.	Corn
Dry beans	Cutworm	20-44lb/acre				
Soybeans	Cutworm	20-44lb/acre				
Onions	Leps	.12-1.5lbs/acre				
 <b>Javelin<sup>®</sup></b> <small>BIOLOGICAL INSECTICIDE</small>	<i>Bt kurstaki strain SA-11</i>	Biological insecticide specific for control of lepidopteran larvae (caterpillars), and must be eaten by the larvae to be effective. Death is achieved through paralysis of the gut and osmotic shock.	Hops	Leps	.25-1lbs/acre	
			Pome fruit	Leps	.5-4lbs/acre	
			Corn	Leps	.5-1.5lbs/acre	
			Potatoes	Leps	.12-1.5lbs/acre	
			Sunflowers	Leps	.25-1.5lbs/acre	
			Alfalfa	Leps	.25-1.5lbs/acre	
			 <b>HOMEPLATE<sup>®</sup></b> <small>NON-SELECTIVE HERBICIDE</small>	<i>Caprylic and capric acids</i>	An OMRI Listed <sup>®</sup> non-selective herbicide that offers control of grasses, broadleaves, and suckers.	Potatoes
Onions	Weeds	3-9% v/v				
Hops	Weeds, Burndown	3-9% v/v				
Stone fruit	Weeds, Sucker Control, Desiccation	3-9% v/v				
Pome fruit	Weeds, Sucker Control, Desiccation	3-9% v/v				
Corn	Weeds	3-9% v/v				
Alfalfa	Weeds	3-9% v/v				