

# HOPS PRODUCT GUIDE

Our portfolio features products that are OMRI Listed®, feature a low REI, 0-day PHI, are exempt from residue tolerances and have minimal to no impact on beneficials.

PRODUCT	ACTIVE INGREDIENT	DESCRIPTION	PEST	REI	PHI	MINIMAL/NO IMPACT ON BENEFICIALS	OMRI® LISTED	RESIDUE EXEMPT	RATES	APPLICATION INTERVAL
<b>Double Nickel<sup>LC</sup></b> <small>BIOFUNGICIDE</small>	<i>Bacillus amyloliquefaciens</i> strain D747 (BaD747)	A broad spectrum fungicide boasting five modes of action to control foliar and soil borne bacterial and fungal diseases.	Powdery mildew, Downy mildew	4	0	✓	✓	✓	1–2qts/acre (LC)	7–10 days
<b>Sil-MATRIX<sup>®</sup></b> <small>FUNGICIDE / MITTICIDE / INSECTICIDE</small>	Potassium Silicate	A novel active ingredient—soluble silica—for crop protection. Sil-MATRIX also forms a physical barrier within the leaf cuticle that prevents penetration of fungal diseases. It also acts as a contact desiccant against mites and interferes with feeding of mites and insects.	Mites, Powdery mildew	4	0	✓	✓	✓	1% vol/vol	Reapply as needed, no sooner than 7 days
<b>Javelin<sup>®</sup></b> <small>BIOLOGICAL INSECTICIDE</small>	<i>Bt kurstaki</i> strain SA-11	Biological insecticide specific for control of lepidopteran larvae (caterpillars). Javelin must be eaten by the larvae to be effective. Death is achieved through paralysis of the gut and osmotic shock.	Lepidopteran pests (Loopers)	4	0	✓ *No Impact	✓	✓	1lb/acre	Reapply as needed
<b>PFR-97<sup>™</sup></b> <small>MICROBIAL INSECTICIDE</small>	<i>Isaria fumosorosea</i> Apopka strain 97	Contains a naturally occurring fungus that controls soft bodied insects and spider-mites. Death is achieved through parasitization of pest.	Mites, aphids	4	0	✓ *No Impact	✓	✓	1–2lbs/acre	7 day reapplication as needed
<b>Carb-O-Nator<sup>®</sup></b>	Potassium Bicarbonate	Deploys a multi-site mode of action, acting through a combination of osmotic pressure, pH and specific ions effects. It acts very rapidly to cause dehydration and total collapse of spore and the mycelium of susceptible fungi.	Powdery mildew, Downy mildew	4	0	✓	✓	✓	2.5–5lbs/acre	10–14 day interval

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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.