



Organic Specialty Crop Products



| Berries, Citrus, Grapes, Pome Fruit, Potatoes, Stone Fruit, Tobacco, Tree Nuts, Vegetables |

	Product	Organic Solution	Crops	Key Problems / Uses	Product Benefits / Use Recommendations
Insecticides	DiPel® DF Biological Insecticide Dry Flowable†	X	Berries, citrus, grapes, pome fruit, potatoes, stone fruit, tree nuts, tobacco, tropical fruits, vegetables	Lepidopteran pests, including cutworms, fruitworms, leafrollers, loopers, peach twig borer	Contains multiple insecticidal proteins and Bt spores for Lepidopteran pests (caterpillar). No impact to pollinators or beneficial insects. Apply when insects are hatching or small. Labeled rate range: 0.5–2 lb/A. REI: 4 hours. PHI: 0 days.
	Pyganic® Crop Protection EC 1.4_{II} / 5.0_{II}†	X	Berries, citrus, grapes, pome fruit, potatoes, stone fruit, subtropical fruits, tree nuts, vegetables	Aphids, beetles, fruit flies, leafhoppers, leafrollers, mites, squash bugs, stink bugs, thrips, weevils, whiteflies, worms	Broad spectrum, organic insecticide used up to the day of harvest. For improved resistance management, consider rotating <i>Pyganic</i> with <i>Debug</i> ® brands, a combination of neem oil and azadirachtin. For more information on <i>Debug</i> brands, visit mgk.com. Apply when target pest(s) populations are observed. Labeled rate range: <i>Pyganic</i> 1.4 _{II} : 16–64 fl oz/A. <i>Pyganic</i> 5.0 _{II} : 4.5–15.61 fl oz/A. REI: 12 hours. PHI: 0 days.
	XenTari® Biological Insecticide Dry Flowable†	X	Berries, citrus, grapes, pome fruit, potatoes, stone fruit, tree nuts, tobacco, tropical fruits, vegetables	Lepidopteran pests, including armyworms and diamondback moth	Contains multiple insecticidal proteins and Bt spores for armyworm and diamondback moth larvae. No impact to pollinators or beneficial insects. Treat when larvae are young (early instars) before crop is damaged. Labeled rate range: 0.5–1.5 (diamondback moth); 0.5–2 (armyworms). REI: 4 hours. PHI: 0 days.
Plant Growth Regulators	ProTone® SG Plant Growth Regulator Soluble Granule†	X	Grapes, pome fruit	Enhance coloration of grapes. For early-season fruit thinning in pome fruit to selectively remove fruitlet from the tree in order to increase size and quality of retained fruit. Post-harvest defoliation of vines, fruit and nut trees (not for use in California).	Grapes —Apply 375–1,250 grams/A within the period from 1 week before veraison (50% of the target fruit has softened) until anticipated harvest of target fruit. Pome Fruit —188–938 grams/A per application. Use higher rates in well cross-pollinated orchards or varieties that have a history of being difficult to thin. REI: 4 hours. PHI: 0 days.
	ProVide® 10 SG Plant Growth Regulator Soluble Granule†	X	Apples	For russet control, plus improved quality, finish and appearance of apples	Helps increase fruit size in apples and can also be used to reduce fruit cracking. Labeled rate range: two to four applications of 2.1–3.5 oz/A in 100 gallons per application. REI: 4 hours. PHI: 0 days.
	ProGibb® 40% Plant Growth Regulator Water Soluble Granule†	X	Berries, citrus, grapes, pecans, stone fruit, vegetables	Berry thinning and sizing in grapes, improved fruit set and rind quality in citrus, improved quality and yield on vegetable crops, improved fruit quality in stone fruit	Gibberellic acid is a natural plant growth regulator found in most plants that promotes the growth and development of flowers, fruits, leaves and stems. Refer to the label for rates/timings by crop. REI: 4 hours. PHI: 0 days
	ProGibb® LV Plus Plant Growth Regulator Solution†	X	Berries, citrus, grapes, pecans, potatoes (seed), stone fruit, vegetables		
Pre-harvest Coating	Raynox® Organic II Sunburn Protectant†	X	Apples	Prevents sunburn browning, no visible residue, no negative effects on beneficial insects	Protects apples from sun damage by forming a thin, clear, natural wax layer that blocks damaging UV rays from harming fruit. Labeled rate: 3 gallons/A in 50 GPA (single side of row treated) or 100 GPA (both sides of row treated). REI: 0 hours. PHI: 0 days.



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Foliar Applied Insecticides

Always refer to the label for specific pests, crops and rate recommendations.

Product	DiPel DF	Pyganic EC 1.4 _{II}	Pyganic EC 5.0 _{II}	XenTari
Application Timing	Early instar and before crop damage	Early infestations for management of pest; apply in early morning, late evening or during the night	Early infestations for management of pest; apply in early morning, late evening or during the night	Early instar and before crop damage
Beneficials	No impact			No impact
Pests Controlled				
Aphids				
Beetles: Bean, Flea, Japanese				
Colorado Potato Beetles				
Diamondback Moth				
Fall Armyworms				
Fruit Flies				
Grasshoppers, Crickets				
Imported Cabbageworms				
Leafhoppers				
Leafrollers, Loopers				
Mealybugs				
Mites				
Stink Bugs				
Thrips				
Whiteflies				
	Highly Effective	Effective	Moderately Effective	Limited Efficacy

Pyganic® Crop Protection EC 1.4_{II} and Pyganic® Crop Protection EC 5.0_{II} are OMRI Listed under MGK for organic production. Raynox® Organic II Sunburn Protectant is OMRI Listed under Pace International LLC for organic production.



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Always read and follow label instructions. Check to be sure product is approved in your area before use and contact Valent or your local state agency for more information.

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†DiPel® DF Biological Insecticide Dry Flowable, ProGibb® 40% Plant Growth Regulator Water Soluble Granule, ProGibb® LV Plus Plant Growth Regulator Solution, ProTone® SG Plant Growth Regulator Soluble Granule, ProVide® 10 SG Plant Growth Regulator Soluble Granule, Pyganic® Crop Protection EC 1.4_{II}, Pyganic® Crop Protection EC 5.0_{II}, Raynox® Organic II Sunburn Protectant and XenTari® Biological Insecticide Dry Flowable are NOP compliant and OMRI Listed for organic production.



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