



Product Use Overview



| California |

Product	Organic Solution	Key Problems / Uses	Product Benefits and Use Recommendations
Belay® Insecticide		Mealybugs, leafhoppers, sharpshooters, grape <i>Phylloxera</i> spp. (suppression)	Soil Application / Chemigation Long-lasting, broad spectrum insect control that is effective in all soil types and readily available for uptake. Labeled rate range: 6–12 fl oz/A per year. Do not apply more than 0.2 lb clothianidin per acre per year. Do not apply during bloom. REI: 12 hours. PHI: 30 days.
		Mealybugs, leafhoppers, sharpshooters, grape berry moth, beetles	Foliar Application Contact / Ingestion activity for reliable, broad spectrum control. Labeled rate range: 2–6 fl oz/A. Higher rates for vine mealybug or high pest pressure. Foliar application rate must not exceed 0.1 lb clothianidin per acre per season. Do not apply during bloom. REI: 12 hours. PHI: 0 days.
Danitol® 2.4 EC Spray		Leafhoppers, stink bugs (excluding brown), cutworms, grape berry moth, glassy-winged sharpshooter, spiders (including a Section 24(c) for black widow spiders), spotted wing drosophila, Japanese beetle, grape leafroller, orange tortrix, grapeleaf skeletonizer	Fast-acting, broad spectrum insecticide proven not to flare mites. Labeled rate range: 5½–10⅔ fl oz/A for leafhoppers and grapeleaf skeletonizer, 10⅔–21⅓ fl oz/A for other pests. REI: 24 hours. PHI: 21 days. Danitol is a restricted use pesticide.
DiPel® DF Biological Insecticide Dry Flowable†	X	Lepidoptera larvae (worms, caterpillars) pests including European grapevine moth (<i>Lobesia botrana</i>), grape berry moth, grape leafroller, grapeleaf skeletonizer (ground only), light brown apple moth, obliquebanded leafroller	<i>DiPel</i> delivers effective larvae control and it has no harvest residue or MRL concerns because it is exempt from tolerances. <i>DiPel</i> is a great rotational or tank mix partner to reduce the potential of larvae developing resistance. Apply 0.5–2 lb/A when larvae are young (early instars) before the crop is damaged. Larvae must be actively feeding on treated, exposed plant surfaces. REI: 4 hours. PHI: 0 days.
Esteem® Ant Bait		Ants	For long-lasting control of protein-feeding ants only (such as fire ants). Apply 1.5–2 lb/A at the first signs of protein-feeding ants foraging and actively moving across the vineyard. REI: 12 hours. PHI: 1 day.
Knack® Insect Growth Regulator		Lecanium scale	Highly effective IGR with proven long-lasting scale control. Apply when crawlers first appear. Two applications per season max. Labeled rate: 16 fl oz/A. REI: 12 hours. PHI: 21 days.
Pyganic® Crop Protection EC 1.4_{ii} / 5.0_{ii}†	X	Aphids, leafhoppers, stink bugs	Apply when target pest(s) threshold populations are observed. For improved resistance management, consider rotating <i>Pyganic</i> with Debug® brands, a combination of neem oil and azadirachtin. For more information on Debug brands, visit mgk.com. 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. Maximum 10 applications per season. REI: 12 hours. PHI: 0 days.
Senstar® Insecticide		Grape tumid gallmaker, lecanium scale (suppression), mealybugs, Phylloxera, whiteflies	With two effective modes of action, <i>Senstar</i> provides long-lasting control of soft-bodied insects at all life stages, including eggs and crawlers. Labeled rate range: 12–16 fl oz/A. REI: 24 hours. PHI: 21 days.
Venom® Insecticide		Vine mealybugs, glassy-winged sharpshooters, leafhoppers, Phylloxera (suppression), thrips	Soil Application / Chemigation Systemic action with rapid protection against sucking and chewing pests. Labeled rate: 5 oz/A. Do not apply during bloom. Make only one soil application per season. Soil application rate must not exceed 0.2 lb dinotefuran per acre per season. REI: 12 hours. PHI: 28 days.
		Vine mealybugs, glassy-winged sharpshooters, leafhoppers, beetles, thrips	Foliar Application Quick control of yield-depleting pests. Labeled rate range: 1–3 oz/A. Do not apply during bloom. Foliar application rate must not exceed 0.1 lb dinotefuran per acre per season. REI: 12 hours. PHI: 1 day.
Zeal® MVP Miticide		Two-spotted spider mite, Pacific mite, Willamette mite, European red mite	Long-lasting mite control with translaminar activity. <i>Zeal MVP</i> is a mite growth regulator that affects all mite life stages, including eggs. Best results are achieved when mite populations are building up and below, or at, threshold. Labeled rate range: 23–34.6 fl oz/A per season. One application per season. REI: 12 hours. PHI: 14 days.

Insecticides



Product Use Overview



	Product	Organic Solution	Key Problems / Uses	Product Benefits and Use Recommendations
Synergist	Exponent® Insecticide Synergist		For use as a synergist in a tank mix to aid in improving the control of insects	Increases the speed of control and level of control of tank mix partners. Enhances the efficacy of pyrethrins, pyrethroids and other classes of insecticides. Raises the level of control by increasing insect susceptibility to insecticides and acaricides. Labeled rate: See label for rates with appropriate insecticide. REI: 12 hours. PHI: Use insecticide mix partner PHI.
Fungicide	Intuity® Fungicide		Botrytis bunch rot, powdery mildew (suppression)	Delivers preventive and residual Botrytis control, locally systemic and translaminar activity, and powdery mildew suppression. <i>Intuity</i> MRL is established in major export countries. For the complete list, refer to the USDA Foreign Agricultural Service for countries with grape MRLs for mandestrobin (<i>Intuity</i> active ingredient). Labeled rate: 6 fl oz/A. REI: 12 hours. PHI: 10 days.
Herbicides	Chateau® EZ Herbicide		More than 90 tough broadleaf and grass weeds, including annual morningglory, fleabane, marestalk	Long-lasting, preemergence herbicide. Won't leach or co-distillate. For table grapes, apply between final harvest up to budbreak. In juice, raisin and wine grapes, you may apply after budbreak only if using a shielded sprayer and spray drift will not contact fruit or foliage. Labeled rate range: 6–12 fl oz/A. Maximum 24 fl oz per year. Clean out sprayer thoroughly after each use. REI: 12 hours. PHI: 60 days.
	Select Max® Herbicide with Inside Technology™ (non-bearing)		Annual and perennial grasses	Superior postemergence for systemic grass control with outstanding crop safety. Lower volatile organic compound (VOC) formulation than other clethodim formulations. May be used with an NIS. Labeled rate range: 9–16 fl oz/A. REI: 24 hours. PHI: 1 year.
Plant Growth Regulators	ProGibb® Plant Growth Regulator	X	Cluster elongation / thinning and increased berry size	ProGibb® 40% Plant Growth Regulator Water Soluble Granule†: Superior uptake and absorption. Volatile organic compound (VOC) compliant. See product labels for rates and timings by variety. REI: 4 hours. PHI: 0 days. ProGibb® LV Plus Plant Growth Regulator Solution†: Low VOC liquid formulation. See product labels for rates and timings by variety. REI: 4 hours. PHI: 0 days.
	ProTone® SG Plant Growth Regulator Soluble Granule†	X	Enhances red coloration of grapes resulting in earlier harvest, improved harvest management and improved pack-out yield	Early timing: Apply 1 bottle (150 grams AI) per acre between veraison, i.e., when 50% of the harvestable fruit has softened and 3 weeks following veraison. Flame Seedless: Apply at veraison. Crimson Seedless: Apply 1–3 weeks after veraison. Red Globe: Apply 1–2 weeks after veraison. Late timing (all varieties): Apply ½ to 1 bottle per acre when clusters contain marketable sugar levels, yet significant green color. Fruit must have the potential to remain firm through harvest (2–3 weeks). REI: 4 hours. PHI: 0 days. <i>ProTone</i> is exempt from a requirement for a tolerance.

Pyganic® Crop Protection EC 1.4_{ii} and Pyganic® Crop Protection EC 5.0_{ii} are OMRI Listed under MGK for organic production.



Products That Work, From People Who Care® | valent.com | 800-6-VALENT (682-5368)

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.

with *Inside Technology* is a trademark and *Chateau*, *Esteem*, *Intuity*, *Knack*, *Select Max*, *Venom*, *Zeal* and *Products That Work*, *From People Who Care* are registered trademarks of Valent U.S.A. LLC. *Select Max* is covered under U.S. Patent No. 7,651,977. *DiPel*, *ProGibb* and *ProTone* are registered trademarks of Valent BioSciences LLC. *Belay* and *Danitol* are registered trademarks of Sumitomo Chemical Company, Ltd. *Debug*, *Exponent* and *Pyganic* are registered trademarks of McLaughlin Gormley King Company.
©2024 Valent U.S.A. LLC. All rights reserved. Printed in the U.S.A. 2024-GRP-8000 1/24

†*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, *Pyganic*® Crop Protection EC 1.4_{ii} and *Pyganic*® Crop Protection EC 5.0_{ii} are NOP compliant and OMRI Listed for organic production.

Danitol is a restricted use pesticide.



LEARN MORE