



Product Use Overview



| U.S. (excluding California) |

	Product	Organic Solution	Key Problems / Uses	Product Benefits and Use Recommendations
Insecticides	Belay® Insecticide		Mealybugs, leafhoppers, sharpshooters, grape phylloxera (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. REI: 12 hours. PHI: 30 days.
			Beetles (including Japanese beetle and multi-colored Asian lady beetle), European grapevine moth, grape berry moth, grape leaf skeletonizer, leafhoppers, mealybugs, sharpshooters	Foliar Application Contact / Ingestion activity for reliable, broad spectrum control. Labeled rate range: 2–4 fl oz/A for beetles and leafhoppers; 4–6 fl oz/A for sharpshooters; and 6 fl oz/A for moths and mealybugs. Do not apply more than 0.2 lb clothianidin per acre per year. Do not apply this product while bees are foraging. REI: 12 hours. PHI: 0 days.
	Danitol® 2.4 EC Spray		Cutworms, glassy-winged sharpshooters, grape berry moth, grapeleaf skeletonizer, Japanese beetle, leafroller, leafhoppers, mites, orange tortrix, plum curculio, rose chafer, spiders, stink bugs (excluding brown)	Quick, broad spectrum pyrethroid insecticide proven not to flare mites. Labeled rate range: 5½–10⅔ fl oz/A for leafhoppers and grapeleaf skeletonizer, 16–21⅓ fl oz/A for plum curculio, 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	Lepidopteran larvae (caterpillar and worm) 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> DF delivers effective larvae control and it has no harvest residue or MRL concerns because it is exempt from tolerances. <i>DiPel</i> DF 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 for 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 <i>Debug</i> ® brands, a combination of neem oil and azadirachtin. For more information on <i>Debug</i> 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 phylloxera, grape tumid gallmaker, lecanium scale (suppression), mealybugs, whiteflies	With two effective modes of action, <i>Senstar</i> provides fast, 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		Glassy-winged sharpshooters, grape phylloxera (suppression), leafhoppers, mealybugs, thrips	Soil Application / Chemigation Super-systemic action with rapid protection against sucking and chewing pests. Labeled rate range: 5–7.5 oz/A. Make only one soil application per season. Do not apply more than a total of 7.5 oz (0.328 lb AI) per acre per season. REI: 12 hours. PHI: 28 days.
			Glassy-winged sharpshooters, grape berry moth (first and second generation only), leafhoppers, mealybugs, multi-colored Asian lady beetle, thrips	Foliar Application Quick control of yield-depleting pests. Labeled rate range: 1–3 oz/A. Do not apply more than a total of 6 oz (0.263 lb AI) per acre per season. REI: 12 hours. PHI: 1 day.
Zeal® Miticide¹		Mites—European red mite, Pacific, two-spotted, Willamette	Long-lasting mite control with translaminar and ovicidal activity. One application per season. <i>Zeal</i> is a mite growth regulator that affects all mite life stages, including eggs. Labeled rate range: 2–3 oz/A per season. REI: 12 hours. PHI: 14 days.	



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Fungicide	Intuity® Fungicide		Botrytis bunch rot, powdery mildew (suppression)	Delivers preventive and residual Botrytis control, locally systemic and translaminar activity, and powdery mildew suppression. 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, marestail	<i>Chateau</i> EZ is a more convenient, easy-to use liquid formulation. 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, as well as acceleration of leaf senescence and abscission	Apply 13.2–44.1 oz (375–1,250 grams) per acre within the period from 1 week before veraison (50 percent of the target fruit has softened) until anticipated harvest of target fruit. <ul style="list-style-type: none"> Early timing: First application should be made between 1 week before veraison and 3 weeks after veraison. Late timing: If additional color development is desired, up to three applications can be used. Multiple applications are expected to improve color on cultivars for which there is an extended period between veraison and harvest. Acceleration of leaf senescence and abscission: Apply 16.5–66.1 oz (469–1,875 grams) per acre per application. Make one to two foliar applications in combination with other defoliating materials in late fall before the onset of dormancy when defoliation is required. Allow 7–14 days between applications to observe the effect of the first application. 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.



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

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