



Product Use Overview



VEGETABLES

| Brassica, Bulb Crops, Cucurbits, Fruiting Vegetables, Leafy & Lettuce Vegetables, Tuberous and Corm (Root) Vegetables |

	Product	Organic Solution	Key Problems / Uses	Product Benefits and Use Recommendations
Insecticides	Asana® XL Insecticide		Beetles, borers, cutworms, grasshoppers, leafhoppers, loopers, whiteflies	Long-lasting, unique cottonseed oil formulation for proven, outstanding control on a broad spectrum of pests. Labeled rate range: 2.9–9.6 fl oz/A. Refer to the <i>Asana XL</i> label for specific pests, crops and rate recommendations. REI: 12 hours. PHI: see label. Asana XL is a restricted use pesticide.
	Belay® Insecticide		Aphids, beetles, stink bugs	CALIFORNIA ONLY: Refer to the DPR's restrictions on neonicotinoid usage in vegetable crops. Long-lasting, fast-acting control of a broad spectrum of pests. Apply when target pest(s) populations are observed. Labeled rate range for foliar application: 3–4 fl oz/A (2–3 fl oz/A for tuberous and corm vegetables). Labeled rate range for soil application: 9–12 fl oz/A. REI: 12 hours. PHI for foliar application: 7 days (14 days for tuberous and corm vegetables). PHI for soil application: 21 days. Belay is not for use on bulb crops or fruiting vegetables.
	Danitol® 2.4 EC Spray		Aphids, armyworms, beetles, cabbageworms, loopers, stink bugs, thrips, two-spotted spider mite (except California)	Quick knock down, broad spectrum control of insects that won't flare mites. Labeled rate range: 10⅔–16 fl oz/A. REI: 24 hours. PHI: see label. Danitol is not for use on bulb crops, leafy vegetables or tuberous and corm (root) vegetables. Danitol is a restricted use pesticide.
	Debug® ON†	X	Aphids, mites, thrips, whiteflies	Contains 70% Neem Oil, making it our highest concentrated Neem-based product. Controls more than 150 insects. Labeled rate range: 28–182 fl oz with 50 gallons of water for ½ acre, 56–364 fl oz with 100 gallons of water for 1 acre. REI: 4 hours. PHI: 0 days.
	Debug® Tres†	X	Aphids, lygus, mites, thrips	Combines the power of Azadirachtin and Neem Oil into one long-lasting solution. The most optimized <i>Debug</i> formulation, especially for knockdown activity with extended residual control. Controls more than 150 insects. Labeled rate range: 8–22.5 fl oz/A. REI: 4 hours. PHI: 0 days.
	Debug® Turbo†	X	Aphids, mites, thrips, whiteflies	Combines the power of Azadirachtin and Neem Oil into one long-lasting solution. The <i>Debug</i> oil formulation with a little extra punch of Azadirachtin. Controls more than 150 insects. Labeled rate range: 16–104 fl oz/A. REI: 4 hours. PHI: 0 days.
	DiPel® DF Biological Insecticide Dry Flowable†	X	Lepidopteran larvae pests, including budworms, cutworms, fruitworms, hornworms, leafrollers, loopers, tent caterpillars and more	Outstanding control of a broad spectrum of Lepidoptera pests. Scout fields and apply when insects are hatching or small. No impact to pollinators or beneficials with high selectivity to Lepidopteran. Labeled rate range: 0.5–2 lb/A. REI: 4 hours. PHI: 0 days.
	Esteem® Ant Bait		Ants (pavement, fire ant)	Effective, long-lasting control of fire ants and other protein-feeding ant species. Apply 1.5–2 lb/A in the early spring or summer at the first sign of ant activity. REI: 12 hours. PHI: 24 hours.
	EverGreen® Crop Protection EC 60-6		Aphids, armyworms, beetles, grasshoppers, leafhoppers, loopers, lygus, psyllids, thrips	Controls more than 100 different insects throughout the entire season including right up until harvest. Provides fast knock down and control. Labeled rate range: 2–16 fl oz/A. REI: 12 hours. PHI: 0 days.
	Knack® Insect Growth Regulator		Whiteflies (banded wing, greenhouse, silverleaf, sweetpotato)	Long-lasting whitefly control; easy on beneficial insects. Labeled rate range: 8–10 fl oz/A (8 fl oz for root and tuber vegetables). REI: 12 hours. PHI: see label.
	Pyganic® Crop Protection EC 1.4_{II} / 5.0_{II}†	X	Aphids, leafhoppers, mites, squash bugs, stink bugs, thrips, whiteflies	Controls more than 150 insects. For improved resistance management, consider rotating <i>Pyganic</i> with <i>Debug</i> brands. <i>Pyganic</i> EC 1.4 _{II} outdoor labeled rate range: 16–64 fl oz/A. <i>Pyganic</i> EC 5.0 _{II} labeled rate range: 4.5–15.61 fl oz/A. REI: 12 hours. PHI: 0 days.
	Senstar® Insecticide		Aphids, onion thrips (larvae), psyllids, swede midge, whiteflies (consult label for specific crop pests)	With two effective modes of action, <i>Senstar</i> provides fast, long-lasting control of soft-bodied insects at all life stages, including eggs. Labeled rate range: 6–10 fl oz/A. Consult label for specific crop rates. REI: 24 hours. PHI: see label. Senstar is not approved for use in California on all crops. See label for additional instructions.



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Insecticides	Venom® Insecticide		Beetles, leafhoppers, leafminers, stink bugs, thrips, whiteflies	CALIFORNIA ONLY: Refer to the DPR's restrictions on neonicotinoid usage in vegetable crops. Super-systemic insecticide for quick, long-lasting control of tough pests. Labeled rate for soil: see label for use rates according to pest pressure and crop. REI: 12 hours. PHI: see label.
	XenTari® Biological Insecticide Dry Flowable†	X	Lepidopteran larvae (caterpillar and worm) pests, including armyworms, diamondback moth	Highly selective, effective control of armyworm and diamondback moth larvae. Labeled rate range: ½–2 lb/A. REI: 4 hours. PHI: 0 days.
Fungicide / Insecticide	Leap® ES Bacterial Disease Management Biological Insecticide Emulsifiable Suspension		Bacterial spot, Lepidopteran larvae (caterpillar and worm) pests	Get protection of bacterial spot (with a non-copper-based mode of action) and worm control with <i>Leap</i> . Apply before the disease appears. Reapply every 5–10 days during the season up to 8 applications—up to the day of harvest. Labeled rate range: 0.5–2 qt/A (1 qt/A for typical use and 2 qt/A when heavy disease incidence and severity are expected). REI: 12 hours. PHI: 0 days.
Fungicides	Elumin® Fungicide		Cucurbit downy mildew, Phytophthora blight, Phytophthora root rot, pink rot, Pythium leak	<i>Elumin</i> is an oomycete fungicide that adds effectiveness to your rotational spray programs so that you maximize crop quality and marketable yield. Labeled rate: 8 fl oz/A. REI: 12 hours. PHI: 2 days.
	Presidio® Fungicide		Cavity spot, damping-off, downy mildew, late blight, Phytophthora blight/crown rot, Phytophthora root rot, white rust (consult label for specific crop pests)	<i>Presidio</i> is targeted chemistry with a unique mode of action for fungicide rotation programs and is highly systemic for effective control of a broad spectrum of soil-borne and foliar diseases. Labeled rate range: 3–4 fl oz/A. Consult label for specific crop rates. <i>Presidio</i> must be tank mixed with a labeled rate of another fungicide active against the target pathogen, but with a different mode of action. REI: 12 hours. PHI: 2 days.
Herbicide	Select Max® Herbicide with Inside Technology™		Annual and perennial grasses	Postemergence grass control with excellent crop safety. For annual grasses, use 9–16 fl oz/A. For perennial grasses, use 12–16 fl oz/A. Do not apply more than 64 fl oz/A per season (32 fl oz/A for Long Island, NY). For repeat applications, make on a minimum of a 14-day interval. REI: 24 hours. PHI: see label. Please see label for crop specific application restrictions.
Plant Growth Regulators	ProGibb® 40% Plant Growth Regulator Water Soluble Granule†	X	Stimulates plant growth	Active ingredient in <i>ProGibb</i> 40% and <i>ProGibb</i> LV Plus, gibberellic acid, is a natural plant growth regulator found in most plants that promotes the growth and development of flowers, fruits, leaves and stems. See product label for rates and timings by variety. REI: 4 hours.
	ProGibb® LV Plus Plant Growth Regulator Solution†	X		

Debug® ON, Debug® Tres, Debug® Turbo, 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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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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†**Debug® ON Emulsifiable Concentrate, Antifeedant, Insect Repellent, Insecticide, Miticide, Fungicide & Nematicide, Debug® Tres Emulsifiable Concentrate Antifeedant, Insect Repellent, Insecticide, Miticide, Fungicide & Nematicide, Debug® Turbo Emulsifiable Concentrate Antifeedant, Insect Repellent, Insecticide, Miticide, Fungicide & Nematicide, DiPel® DF Biological Insecticide Dry Flowable, ProGibb® 40% Plant Growth Regulator Water Soluble Granule, ProGibb® LV Plus Plant Growth Regulator Solution, Pyganic® Crop Protection EC 1.4_{II}, Pyganic® Crop Protection EC 5.0_{II} and XenTari® Biological Insecticide Dry Flowable** are NOP compliant and OMRI Listed for organic production.

Asana XL and *Danitol* are restricted use pesticides.



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