



Product Use Overview



| U.S. (excluding California) |

	Product	Organic Solution	Key Problems / Uses	Product Benefits and Use Recommendations
Insecticides	Asana® XL Insecticide		Aphids, beet armyworms (aids in control), cabbage loopers, Colorado potato beetles, cucumber beetles (adult control), cutworms, European corn borer, flea beetles, grasshoppers, leafhoppers, potato leafhoppers, potato psyllids, potato tuberworms, tarnished plant bugs, Western yellow-striped armyworm	Long-lasting, unique formulation for outstanding control of a broad spectrum of pests. Labeled rate range: 2.9–9.6 fl oz/A. REI: 12 hours. PHI: 7 days. Asana XL is a restricted use pesticide.
	Belay® Insecticide		Aphids, Colorado potato beetles, flea beetles, leafhoppers, potato psyllids (suppression), scarab beetles (adults), sugarcane beetles, sweet potato weevils, white grubs, wireworms (suppression)	Long-lasting, fast-acting control of a broad spectrum of pests. Apply when target pest(s) threshold populations are observed. Do not wait until population beyond threshold has been established. Apply by ground or air in sufficient water to ensure uniform and thorough coverage of foliage. Use a minimum of 3 gallons per acre for aerial applications. Labeled rate range for foliar: 2–3 fl oz/A. Labeled rate range for soil: 9–12 fl oz/A. Labeled rate range for seed piece: 0.4–0.6 fl oz/100 lb seed. REI: 12 hours. PHI: 14 days.
	DiPel® DF Biological Insecticide Dry Flowable†	X	Lepidopteran pests, including armyworms, cutworms, <i>Heliothis</i> , hornworms, loopers, omnivorous leafroller	Environmentally-friendly and effective control of Lepidopteran larvae. Scout fields and apply when insects are hatching or small. Labeled rate range: 0.5–2 lb/A. REI: 4 hours. PHI: 0 days.
	EverGreen® Crop Protection EC 60-6		Aphids, caterpillars, leafhoppers, lygus, thrips	Controls more than 100 different insects throughout the entire season, including right up until harvest. Compatible with sustainable production systems. Labeled rate range: 2–12.6 fl oz/A. The final spray mix should be buffered to a pH of 5.5–7.0. REI: 12 hours. PHI: 0 days.
	Exponent® Insecticide Synergist		For use as a synergist in a tank mix to aid in improving the control of insects	Aids in inhibiting mixed function oxidative resistance in insects. Raises level of control by increasing insect susceptibility to insecticides. <i>Exponent</i> is not intended for use alone but only as a component of a tank mix. Labeled rate range: See label for rates with appropriate insecticide. REI: 12 hours. PHI: depends on partner insecticides.
	Knack® Insect Growth Regulator		Whiteflies	Highly effective insect growth regulator for various whiteflies. Labeled rate: 8 fl oz/A. REI: 12 hours. PHI: 7 days.
	Pyganic® Crop Protection EC 1.4 _{II} / 5.0 _{II} †	X	Aphids, beetles, leafhoppers, mites, plant bugs, thrips, whiteflies	Controls a broad spectrum of insects. For improved resistance management, consider rotating <i>Pyganic</i> with Debug® brands, a combination of neem oil and azadirachtin. For more information on <i>Debug</i> brands, visit valent.com/debug . <i>Pyganic</i> 1.4 _{II} labeled rate range: 16–64 fl oz/A. <i>Pyganic</i> 5.0 _{II} labeled rate range: 4.5–15.61 fl oz/A. REI: 12 hours. PHI: 0 days.
	Senstar® Insecticide		Aphids, psyllids, Western flower thrips (larvae) (suppression only)	With two effective modes of action, <i>Senstar</i> provides long-lasting control of soft-bodied insects at all life stages, including eggs. Labeled rate range: 8–10 fl oz/A. REI: 24 hours. PHI: 7 days.
	Venom® Insecticide		Colorado potato beetles, flea beetles, potato leafhopper, psyllids	Super-systemic insecticide for quick, long-lasting control of pests. Labeled rate range for foliar: 1–1.5 oz/A. Labeled rate range for soil: 6.5–7.5 oz/A. REI: 12 hours. PHI: 7 days.
	XenTari® Biological Insecticide Dry Flowable†	X	Lepidopteran pests, including armyworms, cutworms, <i>Heliothis</i> , hornworms, loopers, omnivorous leafroller	Treat when larvae are young (early instars) before crop is damaged. Labeled rate range: 0.5–1.5 lb/A; 0.5–2 lb/A for armyworms and <i>Heliothis</i> . REI: 4 hours. PHI: 0 days. See individual state regulations.



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Fungicides	Elumin® Fungicide		Potato 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. Apply at planting (in-furrow) and between hilling and tuber initiation. Make applications at least 25 days apart. Labeled rate: 8 fl oz/A. REI: 12 hours. PHI: N/A
	Quash® Fungicide		Anthrachnose, black dot, brown spot, early blight, gray mold (suppression), powdery mildew, white mold	Controls a broad spectrum of diseases, including early blight. Labeled rate range: 2.5–4 oz/A. REI: 12 hours. PHI: 1 day.
Herbicides	Chateau® EZ Herbicide		Active on more than 90 tough broadleaf and annual grass weeds, including lambsquarters, mustard, nightshades, Palmer amaranth, pigweeds, radish	<i>Chateau</i> EZ is a more convenient, easy-to use liquid formulation. Proven performance. Does not leach or volatilize, and offers excellent rotational flexibility. Labeled rate: 1.5 fl oz/A. REI: 12 hours. PHI: Apply after last hilling. Check the label for states where <i>Chateau</i> EZ is approved for use on potatoes.
	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 12–32 fl oz/A. Do not apply more than 32 fl oz/A in a single application. Do not apply more than 64 fl oz/A per season. For repeat applications, make on a minimum of a 14-day interval. REI: 24 hours. PHI: 30 days.
Plant Growth Regulator	ProGibb® LV Plus Plant Growth Regulator†	X	Stimulates uniform sprouting	Potato seed piece dip only. Stimulates uniform sprouting to aid in maximum production, more uniform development, fewer late maturing plants and breaks dormancy of newly harvested potatoes that have not had a full rest period. Labeled rate range: 0.1–0.2 fl oz (3–6 ml) per 100 gallons of water (dip solution). REI: 4 hours. PHI: 0 days.

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® 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 is a restricted use pesticide.



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