

LIST OF INSECTICIDES AND NEMATICIDES USED ON COMMERCIAL VEGETABLES

Trade Name	Common Name	REI ¹	Class ²	LD50 s ³		L/R Potential ⁴
				Oral	Dermal	
Acephate 90 WDG	acephate	24 hrs	1B	1030	>10000	3/3
Acephate 90 WSP	acephate	24 hrs	1B	1030	>10000	3/3
Acephate 97	acephate	24 hrs	1B	688-1127	>2000	3/3
Acephate 97 UP	acephate	24 hrs	1B	688-1127	>2000	3/3
Actara	thiamethoxam	12 hrs	4A	>5000	<2000	1/2
Admire Pro	imidacloprid	12 hrs	4A	609	>2000	1/2
Agree WG	Bt aizawai	4 hrs	11A	>5050	>2020	3/1
• Agri-Mek 0.15 EC	abamectin	12 hrs	6	300	>1800	3/2
• Agri-Mek SC	abamectin	12 hrs	6	310	>2000	3/2
• Ambush 25W	permethrin	12 hrs	3A	>2000	>2000	3/2
• Asana XL	esfenvalerate	12 hrs	3	458	>2000	3/2
Assail 30 SG	acetamiprid	12 hrs	4A	805-886	>2000	2/3
Assail 70WP	acetamiprid	12 hrs	4A	1064	>2000	2/3
• Athena	bifenthrin + abamectin	12 hrs	3A, 6	774	>5000	3/2
Avaunt	indoxacarb	12 hrs	22	687-1867	>5000	3/1
Avicta Duo	abamectin + thiamethoxam	NA	6, 4A	126	>5000	1/2
• Aztec 2.1G	cyfluthrin + phostebupirim	48 hrs	3A, 1B	132-190	>2000	2/1
• Baythroid XL	beta-cyfluthrin	12 hrs	3	647-695	>2000	3/2
Belay	clothianidin	12 hrs	4A	3044	>5000	1/2
Belay 50 WDG	clothianidin	12 hrs	4A	3900-4700	>5000	1/2
Beleaf 50 SG	flonicamid	12 hrs	9C	>2000	>2000	3/3
Belt SC	flubendiamide	12 hrs	28	>2000	>4000	3/1
• Bifenture EC	bifenthrin	12 hrs	3A	262	>2000	3/2
Biobit HP WP	Bt kurstaki	4 hrs	11A	>5000	>2500	3/1
Blackhawk	spinosad	4 hrs	5	>5000	>5000	3/3
Bolton	chlorpyrifos + gamma-cyhalothrin	24 hrs	1B, 3A	300-800	>2000	-/-
Bracket 97	acephate	24 hrs	1	688-1127	>2000	3/3
Bracket 97 Soluble	acephate	24 hrs	1	688-1127	>2000	3/3
• Brigade 2EC	bifenthrin	12 hrs	3A	262	>2000	3/2
• Brigade WSB	bifenthrin	12 hrs	3A	335	>2000	3/2
• Brigadier	bifenthrin + imidacloprid	12 hrs	3, 4A	175	>5000	1/2
• Capture 1.15 G	bifenthrin	24 hrs - 18 days	3A	7431	>5000	3/2
• Capture LFR	bifenthrin	12 hrs	3A	175	>5000	3/2
Carbaryl 4L	carbaryl	12-24 hrs	1A	669	>4000	3/3
Chlorpyrifos 15G	chlorpyrifos	1-3 days	1B	350	2000	3/2
• Chlorpyrifos 4E AG	chlorpyrifos	1-3 days	1B	350	2000	3/2
Closer SC	sulfoxaflor	12 hrs	4C	>5000	>5000	-/-
• Cobalt	chlorpyrifos + gamma-cyhalothrin	24 hrs	1B, 3A	320	>5000	-/-
Confirm 2F	tebufenozide	4 hrs	18	>5000	>5000	1/2
Coragen	chlorantraniliprole	4 hrs	28	>5000	>5000	3/1
• Counter 15G Smartbox	terbufos	48 hrs	1B	10	96	3/3
• Counter 20-G	terbufos	48 hrs	1B	3.58	32-71	3/3
Cruiser 5 FS	thiamethoxam	12 hrs	4A	>5000	>5050	1/2
Cruiser Maxx Potato	thiamethoxam + fludioxonil	12 hrs	4A, 12	3129	>5050	1/1
• Cypermethrin	cypermethrin	12 hrs	3A	355	>2000	3/1

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				Oral	Dermal	
• Danitol 2.4 EC	fenpropathrin	24 hrs	3A	-	-	3/2
• Diazinon 50 WP	diazinon	2-4 days	1B	1960	>2020	3/1
• Diazinon AG 500	diazinon	2-4 days	1B	2040	>2020	3/1
• Diazinon AG600	diazinon	2-4 days	1B	1600	>2020	3/1
• Dibrom 8 EC	naled	48 hrs	1B	235	>5050	3/3
Dimethoate 4 EC	dimethoate	48 hrs	1B	450	>2000	2/3
Dimethoate 400	dimethoate	48 hrs	1B	425	2020	2/3
• Dimethoate 4E	dimethoate	48 hrs	1B	450	>2000	2/3
Dimethoate 4EC	dimethoate	48 hrs	1B	60	1000	2/3
Dipel DF	Bt Kurstaki	4 hrs	11A	>5050	>2020	3/1
Dipel ES	Bt Kurstaki	4 hrs	11A	>5050	>5050	3/1
• Discipline 2 EC	bifenthrin	12 hrs	3A	262	>2000	3/2
Durivo	thiamethoxam + chlorantraniliprole	12 hrs	4A, 28	>5000	>5000	1/2
• Empower 2	bifenthrin + Indole-3-butyric acid	1-18 days	3A-	7431	>5000	2/2
• Endigo ZC	thiamethoxam+ Lambda-cyhalothrin	24 hrs	3A, 4A	310	>2000	1/2
• Endosulfan 3 EC	endosulfan	4-17 days	2A	45	256	3/1
Entrust	spinosad	4 hrs	5	>5000	>2000	3/3
Entrust SC	spinosad	4 hrs	5	>5000	>5000	3/3
• Fanfare 2 EC	bifenthrin	12 hrs	3A	150	>2000	3/2
• Force 3G	tefluthrin	0 hrs	3	969	>2000	3/2
• Force CS	tefluthrin	12 hrs	3	174	2000-5000	3/2
Fulfill	pymetrozine	12 hrs	9B	>5000	>2000	2/1
• Gladiator	Zeta-cypermethrin + avermectin	12 hrs	3, 6	550-2200	>5000	-/-
• Govern	chlorpyrifos	1-3 days	1B	300	>1000	3/2
• Hatchet	chlorpyrifos	1-3 days	1B	300	>1000	3/2
• Hero	bifenthrin + Zeta-cypermethrin	12 hrs	3A, 3A	550	>5000	3/2
• Hero EW	bifenthrin + Zeta-cypermethrin	12 hrs	3A, 3A	175	>5000	3/2
• Holster	cypermethrin	12 hrs	3A	137	>2000	3/1
Imidan 70 WP	phosmet	4-5 days	1B	258-275	>2000	3/3
Intrepid 2 F	methoxyfenoziide	4 hrs	18	>5000	>2000	1/2
Javelin WG	Bt kurstaki	4 hrs	11A	>5100	5000	3/1
Kryocide	cryolite	12 hrs	UN	>5000	>2100	3/1
• Lambda-Cy	lambda-cyhalothrin	24 hrs	3	81	>2000	3/2
• Lannate LV	methomyl	48 hrs	1A	49-89	>2000	1/3
• Lannate SP	methomyl	48 hrs	1A	32	>2000	1/3
• Larvin 3.2 EC	thiodicarb	48 hrs	1A	386	>2000	3/3
• Leverage 360	beta-cyfluthrin + imidacloprid	12 hrs	3A, 4A	>1044	>2000	1/2
Lorsban 15 G	chlorpyrifos	1-3 days	1B	1288-2250	>5000	3/2
• Lorsban 4 E	chlorpyrifos	1-3 days	1B	300	>1000	3/2
• Lorsban 50W WSP	chlorpyrifos	NA	1B	382	>5000	3/2
Lorsban 75 WG	chlorpyrifos	1-3 days	1B	>500	>5000	3/2
• Lorsban Advanced	chlorpyrifos	1-3 days	1B	439	>5000	3/2
Malathion 5	malathion	12 hrs - 3 days	1B	5500	2000	3/3
Malathion 5 EC	malathion	12 hrs-7 days	1B	5500	>2000	3/3
Malathion 57 EC	malathion	12-72 hrs	1B	550	>2000	3/3

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Malathion 8	malathion	12-72 hrs	1B	5400 - 5700	>2000	3/3
Malathion 8 Aquamul	malathion	12-72 hrs	1B	550	>2000	3/3
• Methyl 4 EC	parathion-methyl	4-6 days	1B	13	662	3/2
• Mocap 15 G	ethoprop	48 hrs	1B	250	>2000	1/3
• Mocap EC	ethoprop	48 hrs	1B	16-47	166-369	1/3
Movento	spirotetramat	24 hrs	23	>2000	>4000	3/3
• Mustang Max	Zeta-cypermethrin	12 hrs	3A	157	>5000	3/2
Nimitz	fluensulfone	SL		>2000	>2000	-/-
• Nudrin LV	methomyl	48 hrs	1A	55-174	>2000	1/3
• Nudrin SP	methomyl	48 hrs	1A	7.14-14.2	>5050	1/3
• Nufos 4E	chlorpyrifos	1-3 days	1B	205	>4000	3/2
Nuprid 1.6 F	imidacloprid	12 hrs	4A	>2000	>2000	1/2
Nuprid 2 F	imidacloprid	12 hrs	4A	>2000	>2000	1/2
Oberon 2 SC	spiromesifen	12 hrs	23	>2000	>4000	3/2
Orthene 97	acephate	24 hrs	1B	688-1127	>2000	3/3
• Perm-Up 25DF	permethrin	12 hrs	3A	-	-	3/2
• Perm-Up 3.2 EC	permethrin	12 hrs	3A	1030	>2000	3/2
Platinum	thiamethoxam	12 hrs	4A	>5000	>2000	1/2
Platinum 75 SG	thiamethoxam	12 hrs	4A	>5000	>5000	1/2
Poncho 600	clothianidin	NA	4A	2000	>4000	1/2
Portal	fenpyroximate	12 hrs	21A	810-1004	>5000	3/1
• Pounce 1.5 G	permethrin	12 hrs	3A	>5000	>5000	3/2
• Pounce 25 WP	permethrin	12 hrs	3A	1100	>2000	3/2
• Proaxis	gamma-cyhalothrin	24 hrs	3A	>2500	>5000	3/1
• Proclaim	emamectin benzoate	12 hrs	6	1516	>2000	2/1
Pyrenone	piperonyl butoxide + pyrethrins	12 hrs	3A	4500-4900	>2000	3/2
Radiant SC	spinetoram	4 hrs	5	>5000	>5000	-/-
*Regent 4 SC	fipronil	0 hrs	2B	336	382	2/2
Rimon 0.83EC	novaluron	12 hrs	15	3914-5000	2000-8000	3/1
Saurus	chlorpyrifos	1-3 days	1B	1288-2250	>5000	3/2
Scorpion 35 SL	dinotefuran	12 hrs	4A	>2000	>2000	1/2
• S-FenvaloStar	esfenvalerate	12 hrs	3A	458	>2000	3/2
• Sniper	bifenthrin	12 hrs	3A	262	>2000	3/2
• Stallion	Zeta-cypermethrin + chlorpyrifos	24 hrs	3A, 1B	55-175	>5000	-/-
• Steed	bifenthrin + zeta-cypermethrin	12 hrs	3A, 3A	310	>5000	3/2
• Swagger	bifenthrin + imidacloprid	12 hrs	3A, 4A	1098	>2000	1/2
Synapse WG	flubendiamide	12 hrs	28	>2000	>2000	3/1
• Telone C-17	1,3-dichloropropene + chloropicrin	SL	-	304-519	500	2/3
• Telone II	1,3-dichloropropene	5 days	-	>110	>333	2/3
• Thimet 20 G	phorate	48 hrs	1B	5.1-13.5	67	3/1
• Thionex 3 EC	endosulfan	4-17 days	2A	45	256	3/1
• Thionex 50 W	endosulfan	9-12 days	2A	41	>2000	3/1
Transform WG	sulfoxaflor	24 hrs	4C	>2000	>5000	-/-
Trigard 75 WP	cyromazine	12 hrs	17	4460	>2010	1/2
• Tundra EC	bifenthrin	12 hrs	3A	262	>2000	3/2
• Tundra Supreme	chlorpyrifos + bifenthrin	24 hrs	1B, 3A	98	5050	3/2

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• Up-Cyde 2.5 EC	cypermethrin	12 hrs	3A	355	>2000	3/1
• Vapam HL	metam-sodium	SL	-	812	>2020	2/3
Venom	dinotefuran	12 hrs	4A	>5000	>5000	1/2
Vetica	flubendiamide + buprofezin	12 hrs	28, 16	>5000	>5000	-/-
Voliam Flexi	thiamethoxam + chlorantraniliprole	12 hrs	4A, 28	>5000	>5000	1/1
• Vulcan	chlorpyrifos	1-3 days	1B	500	>5050	3/2
• Vydate L	oxamyl	48 hrs	1A	9-10	>5000	3/3
• Warhawk	chlorpyrifos	1-3 days	1B	300	>1000	3/2
• Warrior II with Zeon Technology	lambda-cyhalothrin	24 hrs	3A	180	>2000	3/2
• Whirlwind	chlorpyrifos	1-3 days	1B	300-776	>5000	3/2
Xentari	Bt ABTS	4 hrs	11A	>5000	>2000	3/1

1. SL=See Label. Read and follow the label directions. Post areas or give oral warnings that areas have been treated to warn workers not to enter until the REI has elapsed as required by the label.
 2. Insecticide Resistance Action Committee Mode of Action Classification (<http://www.irac-online.org/documents/moa-classification/?ext=pdf>)
 3. The LD50 is a standard toxicological term which indicates the number of milligrams (mg) of pesticide per kilogram (kg) of test animal body weight required to kill 50 percent of a test animal population. Values less than 10 indicate extremely high toxicity to mammals. The LD50 data have been obtained from Material Safety Data Sheets.
 4. 1=high, 2=intermediate, 3=low. These leaching/runoff potential ratings are from the NRCS WIN-PST Pesticide Properties Database at <http://go.usa.gov/Kok>
- = Restricted Use Pesticide. All or certain formulations of these toxicants have been classified Restricted Use Pesticides.