

Integrated Pest Management for Blueberries

INSECTICIDES

Common Name	Trade Name	Oral LD50 (1)	Dermal LD50 (1)	EPA Toxicity (2)	Toxicity to Beneficials (3)	Persistence in Soil (4)	Leaching Potential (4)	EIQ (5)	Comments (6)
Azadirachtin	Neem	5000	>2000	IV	9.3	Low	Small	12.8	
<i>Bacillus thuringiensis</i>	Dipel, Javelin	Non Toxic	NDA	III	8.75	Low	Small	7.9	
Carbaryl	Sevin	500	>2000	III	20.7	Low	Med	20.9	
Cryolite	Cryolite bait	>10000	NDA	NDA	31	NDA	Small ^{eiq}	20.4	
Diazinon	Diazinon	300	379	II	45.6	Low	Small	43.4	
Endosulfan	Thionex	18-160 ^e	NDA	I	NDA	NDA	NDA	NDA	
Esfenvalerate	Asana XL	75	>2000	II	47.5	Mod	Small	39.6	
Fenpropathrin	Danitol	70.6	>2000	NDA	25	NDA	Small ^{eiq}	25.3	
Imidacloprid	Admire	424	>5000	II-III	33.9	High	Med	34.9	
Malathion	Malathion	885	4000	III	25	Low	Med	23.83	
Methomyl	Lannate	30	>2000	I	25	Low	Small	18	
Phosmet	imidan	147	3160	II	17.7	Low	Small	23.9	
Pyrethrin	Pyganic	1500	1800	NDA	17	Low	Small	18	
Rotenone	Pyrellin	60	>1000	I-III	19	Low	Small	33	
Spinosad	Success, Entrust	3783	>2000	IV	12.2	NDA	Small ^{eiq}	17.7	
Tebufenozide	Confirm	>5000	>5000	NDA	14.9	NDA	Small ^{eiq}	17.8	
Thiamethoxam	Actara	1563	NDA	NDA	36.7	NDA	Med ^{eiq}	33.3	

This table is a compilation of information from many sources.

- (1) LD50 values taken from "The Pesticide Book" by George Ware and "Pesticide Information Profiles", EXTOXNET.
- (2) Toxicity Rating is based on acute oral LD50 values ("I" is most toxic; "IV" is least toxic).
- (3) Relative hazard to applicators is based on dermal exposure (source EB 1491).
- (4) Beneficial toxicity based on Cornell EIQ (higher numbers equate to greater likelihood for killing arthropod natural enemies).
- (5) Leaching Potential rating from Washington State Water Quality Guide and "Pesticide Information Profiles", EXTOXNET.
- (6) Groundwater leaching potential based on Cornell EIQ (1:small; 5:large).
- (7) Comments regarding groundwater based on "Pesticide Information Profiles", EXTOXNET.