

# Integrated Pest Management for Blueberries

## FUNGICIDES

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)
azoxystrobin	Abound	5000	>2000	IV	10.7	Low	Small	15.2	
Bacillus subtilus	Serenade	Non Toxic	NDA	NDA	7.9	NDA	Small <sup>eiq</sup>	7.6	
boscalid + pyraclostrobin	Pristine	5000	NDA	IV	62.5	Low	Small	43.7	
captan	Captan	9000	NDA	IV	9.3	Low	Small	57.7	
cyprodinil + fludioxonil	Switch	>2000	>2000	III	20	Mod	Small	21.9	
fenbuconazole	Indar	>2000	>5000	NDA	NDA	NDA	NDA	NDA	
iprodione	Iprodione	3500	>1000	III	6.45	Low	Medium	11	
mineral oil	Crop Oil	NDA	NDA	NDA	NDA	NDA	NDA	NDA	
Myclobutanil	Nova	NDA	NDA	NDA	24.34	NDA	Med <sup>eiq</sup>	33	
nu cop 3L	Coppers	1000	NDA	NDA	38.29	NDA	Small <sup>eiq</sup>	33.3	
potassium bicarb	Kaligreen, Milstop	NDA	NDA	IV	5	NDA	Small <sup>eiq</sup>	8	
propiconazole	Orbit	1517	>4000	NDA	28.8	NDA	Small <sup>eiq</sup>	27.5	
pyraclostrobin	Cabrio	260	>4000	NDA	38.8	NDA	Small <sup>eiq</sup>	31.5	
sulfur	Thiolux	Non Toxic	Skin Irritant	NDA	NDA	NDA	Small <sup>eiq</sup>	45.8	
ziram	Ziram	1400	>6000	III	6.5	Moderate	Small	25.8	

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.
- \* copper hydroxide listed as toxicity I due to potential eye irritation.