



Turf: Information About Insecticides/Miticides

Michael Boehm, Joseph Rimelspach, David Shetlar and John Street. 2003.
Management of Turfgrass Pests: Weeds, Diseases, and Insects,
The Ohio State University Extension Bulletin L-187.

Pesticide (Common Name)	Trade Name(s)	Classification	Oral LD ₅₀ ¹ (mg/kg) ²	Dermal LD ₅₀ ¹ (mg/kg) ²	Manufacturer
acephate	Orthene	organophosphate	980	10250	Valent, Micro Flo
azadirachtin (=neem, azatin)	Neem, Turplex	botanical	>5000	>2000	Gardens Alive
<i>Bacillus thuringiensis</i>	BT Bactospeine, Caterpillar Attack, Dipel, Javelin, Thuricide, Vectobac, others	spores + crystalline delta-endotoxin, microbial	none	none	Numerous- Valent, Biosciences Corp.
<i>Beauveria bassiana</i>	White fungus, <i>Beauveria</i> fungus	fungus	none	none	Troy Biosciences
beta-cyfluthrin	Tempo SC Ultra	pyrethroid	630-670	>5000	Bayer
bifenthrin	Talstar	pyrethroid	375	>2000	FMC, The Scotts Co.
carbaryl	Carbaryl, Sevin	carbamate	246	>4000	Bayer, Drexel, UAP
chlorpyrifos	Dursban, Pageant	organophosphate	270	2000	DowAgrosciences
clothianidan	Arena	neonicotinyl			Arvesta
cyfluthrin	Decathlon, Tempo	pyrethroid	826	>2000	Bayer, Olympic
deltamethrin	DeltaGard	pyrethroid	128	>2000	Bayer, Bonide
dicofol	Docofol, Kelthane	chlorinated hydrocarbon	595	>5000	DowAgrosciences, UAP
flupyrifamid	Chipco Choice	phenyl pyrazol	97	>2000	Bayer
fluvalinate	Mavrik Aqua Flow	pyrethroid	282	>2000	Zoecon
halofenozide	MACH2	diacylhydrazine	2850	>2000	DowAgrosciences
imidacloprid	Merit	chloronicotinyl	450	>2000	Bayer, Olympic
imidacloprid + bifenthrin	Allectus	chloronicotinyl + pyrethroid	375	>2000	Bayer
lambda-cyhalothrin	Scimitar	pyrethroid	79	632	Syngenta
malathion	Cythion, Malathion	organophosphate	1000	4100	Drexel, UAP
metaldehyde	Bug-Geta, Deadline, Slug-Geta	metacetaldehyde	360		Valent, Pace International
permethrin	Astro, Ambush, Pounce	pyrethroid	450-4000	>4000	FMC, TopPro
spinosad	Conserve	microbial	>2000	>2000	DowAgrosciences
trichlorfon	Dylox, Proxol	organophosphate	250	>2100	Bayer

¹Farm Chemicals Handbook '98 (Meister Publishing Co., Willoughby, OH), and technical data information where available.

²Equals milligrams per kilogram of body weight applied orally or dermally. (1 milligram = 1/1,000 of a gram, 454 grams = 1 lb.)