

# product toxicity comparisons

Evaluation of active ingredients only; does not include toxicity information on inert or "other" ingredients.

## Toxicity/Threat:

○ low   ◐ moderate   ◑ high   ● highest   NA not applicable  
 ? unknown toxicity   🌱 earth-wise

## Hazards:



note	Product Name	active ingredient(s) / concentrations	human toxicity		aquatic life	birds, bees, pets	soil mobility	environmental persistence
			acute	chronic				
	Actinovate® SP	Streptomyces lydicus 0.037%	◐	?	◑	○	●	◐
🌱	Agralawn Crabgrass Control	Cinnamon bark 0.95%	○	?	○	○	○	?
	Amdro® Fire Strike™ Yard Treatment Fire Ant Bait	Hydramethylnon 0.036% Methoprene 0.25%	◐	◑	◑	◑	○	◐
🌱	Amdro® Image® Nutsedge Killer	Imazaquin 3.3%	◐	?	◐	○	●	◑
	Amdro® Pro Fire Ant Bait	Hydramethylnon 0.73%	◐	◑	◑	◑	○	◐
	Bayer Advanced™ 2 in 1 Systemic Flower Care	Disulfoton 0.1%	◑	◑	●	●	◐	◑
	Bayer Advanced™ 3 in 1 Insect, Disease & Mite Control	Tebuconazole 0.65% Imidaproclid 0.47% Tau-fulvalinate 0.61%	◐	◐	●	●	◐	◑
	Bayer Advanced™ All-in-One Weed Killer for Lawns Concentrate	MSMA 9.81%, 2,4-D 3.81% MCPP 1.6% Dicamba 0.79%	◐	●	◐	○	○	●/◐
	Bayer Advanced™ 24 Hour Grub Killer Plus Ready-to-Spread Granules	Trichlorfon 6.24%	◐	◑	◑	◑	●	◐
	Bayer Advanced™ All-in-One Lawn Weed & Crabgrass Killer Ready-to-Spray	2,4-D 4.85% Quinclorac 1.61%	◐	◑	◑	○	●	◐
	Bayer Advanced™ Complete Insect Killer for Soil & Turf Ready-to-Spread Granules	Imidacloprid 0.15% Beta-cyfluthrin 0.5%	◐	?	●	◑	◐	◑
	Bayer Advanced™ Disease Control for Roses, Flowers & Shrubs Concentrate	Tebuconazole 2.9%	◐	○	◑	○	◐	◐
	Bayer Advanced™ Fire Ant Killer Ready-to-Use Dust	Beta-cyfluthrin 0.5%	◐	?	●	◑	○	◐
	Bayer Advanced™ PowerForce® Mosquito Killer Plus Outdoor Fogger	Tetramethrin 0.15%, Permethrin 0.15%, Piperonyl butoxide 0.75%	◐	◑	●	◑	○	●/◐
	Bayer Advanced™ PowerForce® Multi-Insect Killer Concentrate	Cyfluthrin 0.75%	◐	?	●	◑	○	◐
🌱	Bayer Advanced™ Snail & Slug Killer Bait	Iron phosphate 1%	○	?	◐	○	○	N/A
	Bayer Advanced™ Tree & Shrub Insect Control Concentrate	Imidacloprid 1.47%	◐	?	●	◑	◐	◑
🌱	Bioganic™ Spot Weeder Ready-to-Use	Phenethyl propionate 2.5% Eugenol 2.5%	○	?	?	○	○	○
	Black Flag® Backyard Fogger	Permethrin 0.2%, Tetramethrin 0.2%	◐	◑	●	◑	◐	●/◐
	Bonide® All Seasons® Horticultural Spray Oil	Petroleum oil 98%	◐	?	●	●	?	?
	Bonide® Fire Ant Granules	Permethrin 0.25%	◐	◑	●	◑	○	●/◐
	Bonide® Garden Dust	Copper 7% Rotenone 0.75% Other cube resins 1.5%	◐	○	◑	◑	◐	○
	Bonide® Grub Beater	Azadirachtin 0.09%	◐	?	◐	◑	○	○
🌱	Bonide® Hot Pepper Wax Ready-to-Use	Capsaicin and related capsaicinoids 0.184%	◐	?	◐	○	?	?



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■ herbicide   
 ■ fungicide   
 ■ insecticide   
 ■ combination

**Hazards:**



note	Product Name	active ingredient(s) / concentrations	human toxicity		aquatic life	birds, bees, pets	soil mobility	environmental persistence
			acute	chronic				
	Bonide® Mosquito Beater Flying Insect Yard Fog	Resemethrin 0.2%	○	○	◐	◐	?	◐
	Bonide® Stinger Fire Ant Killer	Bifenthrin 0.20%	◐	?	●	◐	○	◐
●	Concern® Citrus Home Pest Control™	D-limonene 5.8%	◐	?	◐	◐	○	○
●	Concern® Copper Soap Fungicide®	Copper Octonate 0.08%	◐	○	◐	○	○	○
●	Concern® Insect Killing Soap	Fatty acid soap	◐	?	◐	○	○	○
	Concern® Multi-Purpose Insect Killer	Pyrethrins 0.02%, PBO 0.2%	◐	●	◐	◐	○	○
	Concern® Weed Prevention Plus™ 8-2-4	Corn gluten 100%	○	○	◐	○	?	?
●	Cutter® Advanced Insect Repellent	Picaridin 7%	◐	?	N/A	N/A	N/A	N/A
	Cutter® Bug Free Backyard® Concentrate	Lambda-cyhalothrin 0.5%	◐	◐	◐	◐	◐	◐/○
	Diatect® Multi-purpose	Pyrethrins 0.2% PBO 1.0% Silicone dioxide 82%	◐	●	◐	◐	○	○
	Diatect® Results Fire Ant Control	Pyrethrins 0.2% PBO 1.0% Silicone dioxide 82%	◐	●	◐	◐	○	○
●	Ecosmart® Organic™ Insect Repellent	Rosemary Oil 0.5% Cinnamon Leaf Oil 0.5% Lemongrass 0.5 Geraniol 1%	◐	?	N/A	N/A	N/A	N/A
	Eliminator® Bug & Snail Bait	Metaldehyde 2%, Carbaryl 5%	◐	◐	◐	●	◐	◐
	Eliminator® Liquid Edger	Sodium cacodylate 0.53%, Cacodylic acid 0.09%	◐	●	◐	◐	○	●/◐
	Fertilome® Borer Bagworm, Leafminer & Tent Caterpillar Spray	Spinosad 0.5%	◐	?	◐	◐	○	◐
	Fertilome® Broad Spectrum Landscape & Garden Fungicide	Chlorothalonil 12.5%	◐	●	◐	○	◐	◐/○
	Fertilome® Crabgrass, Nutgrass & Dallisgrass Killer	Monosodium acid methanearsonate 13.2%	◐	●	◐	○	○	◐
●	Fertilome® Dormant Oil	Parrafinic oil 98%	◐	?	◐	○	○	◐
	Fertilome® F Stop Lawn Fungicide	Myclobutanil 0.39%	◐	◐	●	●	◐	◐
	Fertilome® Halt Systemic Rose, Flower, Lawn & Ornamentals Fungicide	3-thiallophanate 50%	○	◐	◐	◐	◐	○
	Fertilome® Liquid Systemic Fungicide	Propiconazole 1.55%	◐	◐	◐	◐	◐	◐
●	Fertilome® Weed & Feed Special 20-0-4	Simazine 0.63%	○	◐	○	○	○	◐
●	Finale® Weed and Grass Killer Concentrate	Glufosinate-ammonium 1.0%	◐	◐	◐	◐	?	○
	Garden Safe® Fungicide 3-in-1 Ready-to-Use	Neem Oil 0.9%	◐	?	◐	◐	○	○
	Garden Tech® Over'n Out!™ Fire Ant Killer Granules	Fipronil 0.0103%	◐	○	◐	◐	○	◐
●	Garden Tech® Over'n Out!™ Fire Ant Killer Mound Treatment	Indoxacarb 0.008%	◐	?	◐	◐	?	?
	GardenTech® Sevin® Daconil® Ready-to-Use	Chlorothalonil 0.087%	◐	●	◐	○	◐	◐/○



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note	Product Name	active ingredient(s) / concentrations	human toxicity		aquatic life	birds, bees, pets	soil mobility	environmental persistence
			acute	chronic				
	Bonide® Mosquito Beater Flying Insect Yard Fog	Resemethrin 0.2%	○	○	◐	◐	?	◑
	Bonide® Stinger Fire Ant Killer	Bifenthrin 0.20%	◐	?	●	◐	○	◐
	Concern® Citrus Home Pest Control™	D-limonene 5.8%	◐	?	◐	◐	○	○
	Concern® Copper Soap Fungicide®	Copper Octonate 0.08%	◐	○	◐	○	○	○
	Concern® Insect Killing Soap	Fatty acid soap	◐	?	◐	○	○	○
	Concern® Multi-Purpose Insect Killer	Pyrethrins 0.02%, PBO 0.2%	◐	●	◐	◐	○	○
	Concern® Weed Prevention Plus™ 8-2-4	Corn gluten 100%	○	○	◐	○	?	?
	Cutter® Advanced Insect Repellent	Picaridin 7%	◐	?	N/A	N/A	N/A	N/A
	Cutter® Bug Free Backyard® Concentrate	Lambda-cyhalothrin 0.5%	◐	◐	◐	◐	◐	◐/○
	Diatect® Multi-purpose	Pyrethrins 0.2% PBO 1.0% Silicone dioxide 82%	◐	●	◐	◐	○	○
	Diatect® Results Fire Ant Control	Pyrethrins 0.2% PBO 1.0% Silicone dioxide 82%	◐	●	◐	◐	○	○
	Ecosmart® Organic™ Insect Repellent	Rosemary Oil 0.5% Cinnamon Leaf Oil 0.5% Lemongrass 0.5% Geraniol 1%	◐	?	N/A	N/A	N/A	N/A
	Eliminator® Bug & Snail Bait	Metaldehyde 2%, Carbaryl 5%	◐	◐	◐	●	◐	◐
	Eliminator® Liquid Edger	Sodium cacodylate 0.53%, Cacodylic acid 0.09%	◐	●	◐	◐	○	●/○
	Fertilome® Borer Bagworm, Leafminer & Tent Caterpillar Spray	Spinosad 0.5%	◐	?	◐	◐	○	◐
	Fertilome® Broad Spectrum Landscape & Garden Fungicide	Chlorothalonil 12.5%	◐	●	◐	○	◐	◐/○
	Fertilome® Crabgrass, Nutgrass & Dallisgrass Killer	Monosodium acid methanearsonate 13.2%	◐	●	◐	○	○	◐
	Fertilome® Dormant Oil	Parrafinic oil 98%	◐	?	◐	○	○	◐
	Fertilome® F Stop Lawn Fungicide	Myclobutanil 0.39%	◐	◐	●	●	◐	◐
	Fertilome® Halt Systemic Rose, Flower, Lawn & Ornamentals Fungicide	3-thiallophanate 50%	○	◐	◐	◐	◐	○
	Fertilome® Liquid Systemic Fungicide	Propiconazole 1.55%	◐	◐	◐	◐	◐	◐
	Fertilome® Weed & Feed Special 20-0-4	Simazine 0.63%	○	◐	○	○	○	◐
	Finale® Weed and Grass Killer Concentrate	Glufosinate-ammonium 1.0%	◐	◐	◐	◐	?	○
	Garden Safe® Fungicide 3-in-1 Ready-to-Use	Neem Oil 0.9%	◐	?	◐	◐	○	○
	Garden Tech® Over'n Out!™ Fire Ant Killer Granules	Fipronil 0.0103%	◐	○	◐	◐	○	◐
	Garden Tech® Over'n Out!™ Fire Ant Killer Mound Treatment	Indoxacarb 0.008%	◐	?	◐	◐	?	?
	GardenTech® Sevin® Daconil® Ready-to-Use	Chlorothalonil 0.087%	◐	●	◐	○	◐	◐/○



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			acute	chronic				
	Ortho® Bug-B-Gon® Max® Season Long Insect Killer for Lawns	Bifenthrin .115%	☉	?	●	☉	○	☉
	Ortho® Bug-Geta® Snail & Slug Killer	Metaldehyde 3.25%	☉	?	☉	●	☉	☉
	Ortho® Ecosense™ Brand Disease Control	Copper Octonate 0.08%	☉	○	☉	○	○	○
	Ortho® Ecosense™ Brand Insecticidal Soap	Potassium salt of fatty acid soap 1.0%	☉	?	☉	○	○	○
	Ortho® Ecosense™ Brand Organic Weed & Grass Killer	2-phenethyl propionate 2.5% Eugenol 2.5% Sodium laurel sulfate .05%	○	?	?	○	○	○
	Ortho® Max Season Long® Weed & Grass Killer Plus Preventer Ready-to-Use	Glyphosate 0.25% Oxyfluorfen 0.25%	○	?	☉	○	○	☉
	Ortho® Max® Fire Ant Killer Broadcast Granules	Bifenthrin 0.1%	☉	?	●	☉	○	☉
	Ortho® Max® Tree & Shrub Insect Control	Imidacloprid 1.47%	☉	?	●	☉	☉	☉
	Ortho® Orthene® Fire Ant Killer	Acephate 50%	☉	☉	☉	●	☉	☉
	Ortho® Orthenex® Garden Insect & Disease Control Concentrate	Acephate 4%, Triforine 3.25%, Fenbutatin-oxide 0.75%	☉	☉	☉	●	☉	☉
	Ortho® Volck® Oil Spray	Petroleum oil 97%	☉	?	●	●	?	?
	Ortho® Weed-B-Gon Max® Plus Crabgrass Control Ready-to-Use	2,4-D 0.12%, Dicamba quiniclorac 0.10% MCPP 0.22%	☉	☉	☉	○	●	☉
	Ortho® Weed-B-Gon® Crabgrass Killer for Lawns	Calcium acid methanearnsinate 0.50%	☉	●	☉	○	○	●/○
	Ortho® Weed-B-Gon® Spot Weed Killer for St Augustine Lawns	Atrazine 0.60%	☉	☉	☉	○	●	☉
	Preen® Garden Weed Preventer	Trifluralin 1.47%	☉	?	●	☉	○	☉
	Repel® Lemon Eucalyptus Insect repellent	P-menthane	☉	?	N/A	N/A	N/A	N/A
	Roundup® Poison Ivy & Tough Brush Killer Plus Ready-to-Use	Glyphosate 1% Triclopyr 0.1%	☉	?	☉	○	○	☉
	Roundup® Weed & Grass Killer Super Concentrate	Glyphosate 50.2%	☉	?	☉	○	○	☉
	Safer® 3 in 1 Spray	Potassium salt of fatty acid .75% Sulfur .40%	☉	?	☉	○	○	○
	Safer® Garden Fungicide	Sulfur 12%	○	?	○	○	○	N/A
	Safer® Fire Ant Killer	d-limonene 78%	☉	?	☉	☉	○	○
	SC Johnson Off!® Power Pad Lamp	D-CIS/transallethrin 21.97%	☉	?	●	☉	☉	☉
	SC Johnson Off!® Mosquito Coil For Outdoor Use	D-CIS transallethrin 0.33%, Sodium benzoate 0.15%	☉	?	●	☉	☉	☉
	Scotts® Bonus® S Max Southern Weed and Feed & Fire Ant Killer	Bifenthrin 0.110%, Atrazine 1.089%	☉	☉	●	☉	●	☉
	Scotts® Bonus® S Southern Weed and Feed	Atrazine 1.055%	☉	☉	☉	○	●	☉



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	Scotts® GrubEx® Season-Long Grub Killer	Imidacloprid	○	?	●	●	●	●
	Scotts® Lawn Fungus Control	Thiophanate-methyl 2.3%	○	●	○	○	○	○
	Scotts® Turf Builder® Halts® Crabgrass Preventer	Pendimethalin 1.71%	○	○	○	○	○	○
	Scotts® Turf Builder® WinterGuard™ PLUS 2® Weed Control	2,4-D 1.04% MCPP 0.52%	○	○	○	○	●	○
	SedgeHammer™	Halosulfuron - methyl 75%	○	○	○	○	○	?
●	Serenade® Disease Control	Bacillus subtilis 1.34%	○	○	○	○	○	○
●	Serenade® Lawn Disease Control	Bacillus subtilis 1.34%	○	○	○	○	○	○
	Spectracide® Fire Ant Killer Granules Mound Destroyer™	Lambda-cyhalothrin 0.04%	○	○	○	○	○	○/○
●	Spectracide® Fire Ant Killer Plus Preventer Bait Once & Done!™	Indoxacarb 0.016%	○	?	○	○	?	?
	Spectracide® Grub Stop™ Once & Done!™	Halofenozide 1.5%	○	?	○	○	○	○
	Spectracide® Immunox® Plus Insect & Disease Control	Myclobutanil 0.78% Permethrin 1.25%	○	○	○	○	○	○/○
	Spectracide® Malathion Concentrate	Malathion 50%	○	?	○	○	○	○
	Spectracide® Poison Oak & Poison Ivy Brush Killer EZ Spray™	2,4-D 0.493% 2-methy-4-chlorophenoxy	○	○	○	○	○	○
	Spectracide® Triazicide® Once and Done!™ Insect Killer Ready-to-Use	Cyhalothrin 0.25%	○	○	○	○	○	○
●	Spectracide® Weed & Grass Killer Concentrate	Diquat dibromide 2.3% fluazifop-p-buytl 1.15% Dicamba 0.77%	○	?	○	○	○	○
	Spectracide® Weed Stop® 2x for Lawns Concentrate	2,4-D 7.57%, Dicamba 0.71%, MCPP 2.73%, Sulfentrazone 0.18%	○	○	○	○	○	○
●	Summit® Mosquito Dunks	B.t. israeliensis 10.31%	○	?	○	○	N/A	○
●	TomCat® Fire Ant Killer Granules	Indoxacarb 0.008%	○	○	○	○	?	○
●	True Stop™ Fire Ant Killer	Rotenone 0.25% Other resins 0.30%	○	○	○	○	○	○
	Vigoro® Ultra Weed & Feed 28-3-3	2,4-D 0.64%, MCPP 0.16%, Dicamba 0.03%	○	○	○	○	○	○
	Vigoro® UltraTurf™ St. Augustine Weed & Feed with Atrazine 29-3-5	Atrazine 1.102%, Related compounds 0.058%	○	○	○	○	○	○

The City of Austin and the Texas Cooperative Extension provide this information as a comparative reference only. Listing of specific product trade names does not constitute an endorsement of its use. Many other pesticides and pesticide products are available and may be suitable for use other than those listed in these tables.

Products rated by Grady J. Glenn, Ph.D., B.C.E., of the Pesticide Education Program, Texas Cooperative Extension who can be reached for questions at (979) 862-1035. The rating system was developed by Philip Dickey of the Washington Toxics Coalition.



974-2550

