

Least-toxic Products Listed by Problem

* products may only be used after approval from the City of Austin IPM Coordinator; call 974-2550

** generic versions of products with glyphosate may be used without permission

APHIDS	
*Bonide® All Seasons® Horticultural Spray Oil	Petroleum Oil 98%
Bonide® Hot Pepper Wax Ready-to-Use	Capsaicin and Related Capsaicinoids 0.00001125 %
Concern® Insect Killing Soap	Potassium Salts of Fatty Acid 2%
*Concern® Multi-Purpose Insect Killer	Pyrethrins 0.24% Potassium Salts of Fatty Acid 20%
Ecosmart® Organic™ Insect Repellent	Rosemary Oil 0.5% Cinnamon Leaf Oil 0.5% Lemongrass 0.5 Geranoil 1%
*Garden Safe® Fungicide 3-in-1 Ready-to-Use	Neem Oil 0.9%
*Green Light® Neem Concentrate	Neem Oil 70%
Green Light® Yard Safe CedarCide® Repellent Granules	Cedar Oil 2%
Lily Miller® Vegol™ Year Round Pesticidal Oil	Canola Oil 96%
Monterey All Natural Mite & Insect Control RTU	Rosemary Oil .04 Sesame Oil .04% Peppermint Oil .03% Thyme Oil .03% Cinnamon Oil .02% Malic Acid .02%
*Monterey Take Down™ Garden Spray	Pyrethrin .018% Canola Oil 1%
Organicide™ Organic Insecticide & Fungicide	Sesame Oil .10%
*Ortho® Ecosense Brand Outdoor Insect Killer	Pyrethrin .018% Canola Oil 1%
Ortho® Ecosense™ Brand Insecticidal Soap	Potassium Salt of Fatty Acid Soap 1.0%
*Ortho® Volck® Oil Spray	Petroleum Oil 97%
Safer® 3 in 1 Spray	Potassium Salt of Fatty Acid .75% Sulfur .40%
*Safer® BioNEEM	Azadirachtin 0.09%
Safer® Insecticidal Soap Multi-purpose Insect Killer w/Seaweed	Potassium Salts of Fatty Acid Soap 2%

BEETLES	
Bonide® Hot Pepper Wax Ready-to-Use	Capsaicin and related capsaicinoids 0.00001125 %
*Safer® BioNEEM	Azadirachtin 0.09%
Green Light® Bioganic Home & Garden Insect Spray	Thyme Oil 0.33% Clove Oil 0.33% Sesame Oil 0.33%

CATERPILLARSLeast	
American Brand® Thuricide Concentrate	<i>Bacillus thuringiensis kurstaki</i> 1.5%
*Concern® Multi-Purpose Insect Killer	*Pyrethrins 0.24% Potassium Salts of Fatty Acid 20%
*Fertilome® Borer Bagworm, Leafminer & Tent Caterpillar Spray	Spinosad 0.5%
Green Light® Bioganic Home & Garden Insect Spray	Thyme Oil 0.33% Clove Oil 0.33% Sesame Oil 0.33% Other 99.01%
Green Light® BT Worm Killer	<i>Bacillus thuringiensis kurstaki</i> 0.8%
Green Light® Dipel Dust	<i>Bacillus thuringiensis kurstaki</i> 0.45%
Monterey All Natural Mite & Insect Control RTU	Rosemary Oil .04 Sesame Oil .04% Peppermint Oil .03% Thyme Oil .03% Cinnamon Oil .02% Malic Acid .02%
*Monterey Take Down™ Garden Spray	Pyrethrin .018% Canola Oil 1%
*Ortho® Volck® Oil Spray	Petroleum Oil 97%
Safer® 3 in 1 Spray	Potassium Salt of Fatty Acid .75% Sulfur .40%
Safer® Caterpillar Killer	<i>Bacillus thuringiensis, var. Kurstaki (DIPEL)</i> 1.76%

FIRE ANTS		Bait	Mound	Broadcast
Antidote™	Beneficial Nematodes			x
*Ortho® Ecosense Brand Fire Ant Bait Granules	Spinosad 0.015%	x		
*Green Light® Fire Ant Control with Conserve®	Spinosad 0.015%		x	

FLEAS	
Antidote™	Beneficial nematodes
Concern® Diatomaceous Earth Crawling Insect Killer	Diatomaceous Earth from Silcone Dioxide 85% Other Elemental Oxides 10%
Green Light® Bioganic Home & Garden Insect Spray	Thyme Oil 0.33% Clove Oil 0.33% Sesame Oil 0.33%
Green Light® Yard Safe CedarCide® Repellent Granules	Cedar Oil 2%

FUNGAL LEAF SPOT	
Bonide® Liquid Copper	Copper Octonate 10%
Bonide® Remedy	Potassium Bicarbonate 85%
Concern® Copper Soap Fungicide	Copper Octonate 0.08%
*Garden Safe® Fungicide 3-in-1 Ready-to-Use	Neem Oil 0.9%
Garden-Ville® Potassium Bicarbonate	Potassium Bicarbonate
Garlic GP® Ornamental Fungicide	Garlic Juice 98.2%, Potassium Sorbate 0.30%, Citric Acid 1.5%
*Green Light® Neem Concentrate	Extract of Neem Oil 70%
Green Light® Organic Fungicide	Rosemary Oil .2%
Hi Yield® Bordeaux	Copper 12.5%
Monterey All Natural Disease Control RTU	Rosemary oil .05 Cloves/Clove Oil .05% Peppermint Oil .04% Malic Acid .02%
Ortho® Ecosense Brand Fungicide	Copper Octonate .08%
Ortho® Ecosense™ Brand Disease Control	Copper Octonate 0.08%
Safer® Garden Fungicide	Sulfur 12%
Serenade® Disease Control	<i>Bacillus subtilis</i> 1.34%

POWDERY MILDEW	
Actinovate® SP	<i>Streptomyces lydicus</i> 0.037%
Bonide® Liquid Copper	Copper Octonate 10%
Bonide® Remedy	Potassium Bicarbonate 85%
Concern® Copper Soap Fungicide	Copper Octonate 0.08%
*Garden Safe® Fungicide 3-in-1 Ready-to-Use	Neem Oil 0.9%
Garden-Ville® Potassium Bicarbonate	Potassium Bicarbonate
Garlic GP® Ornamental Fungicide	Garlic Juice 98.2%, Potassium Sorbate 0.30%, Citric Acid 1.5%
*Green Light® Neem Concentrate	Extract of Neem Oil 70%
Green Light® Organic Fungicide	Rosemary Oil .2%
Hi Yield® Bordeaux	Copper 12.5%
Monterey All Natural Disease Control RTU	Rosemary oil .05 Cloves/clove Oil .05% Peppermint Oil .04% Malic Acid .02%
Monterey E-Rase™	Jojoba Oil 97.50%
Ortho® Ecosense brand	Copper Octanate .08%
Ortho® Ecosense™ Brand Disease Control	Copper Octonate 0.08%
Safer® 3 in 1 Spray	Potassium Salt of Fatty Acid .75% Sulfur .40%
*Safer® BioNEEM	Azadirachtin 0.09%
Safer® Garden Fungicide	Sulfur 12%
Serenade® Disease Control	<i>Bacillus subtilis</i> 1.34%

LAWN CARE - Weeds	
Agralawn Crabgrass Control	Cinnamon Bark 0.95%
Spectracide® Weed Stop® 2x Weed Killer for Lawns Gel	Diquat Dibromide 0.18% Fluazifop-p-buytl 0.06% Dicamba 0.04%

LAWN PROBLEMS - Chinch Bugs	
Concern® Diatomaceous Earth Crawling Insect Killer	Diatomaceous Earth from Silcone Dioxide 85% Other Elemental Oxides 10%

LAWN PROBLEMS - Grubs	
Antidote™	<i>Beneficial nematodes</i>
*Bonide® Grub Beater	Azadirachtin 0.09%

LAWN PROBLEMS - Brown Patch		
Actinovate® SP	<i>Streptomyces lydicus</i> 0.037%	brown patch and take all
Serenade® Lawn Disease Control	<i>Bacillus subtilis</i> 1.34%	brown patch only
Hi-Yield® Turf & Ornamental Fungicide	PCNB 10%	brown patch only

MOSQUITOS		Personal Repellents	Standing Water Treatment	Vegetation Spray or Granules	Airborne Repellent
Bite Blocker®	Soybean Oil, Coconut Oil	x			
Cutter Advanced® with Picardin	Picaradin	x			
Safer® Garden Fungicide	Sulfur 12%			x	
Summit® Mosquito Dunks	<i>Bacillus thuringensis israeliensis</i> 10.31%		x		
Garlic GP® Ornamental Fungicide	Garlic Juice 98.2%, Potassium Sorbate 0.30%, Citric Acid 1.5%			x	
Bonide® Mosquito Beater Repellent Granules	Geranium Oil, Cedar Oil, Lemongrass Oil, Garlic Oil and Citronella Oils			x	
Green Light® Yard Safe CedarCide® Repellent Granules	Cedar Oil 2%			x	
Nature's Guide Mosquito Repellent	Citronella Oil 5%			x	

POISON IVY	
Finale® Weed and Grass Killer Concentrate	Glufosinate-ammonium 1.0%
*Maestro Gro Vinegar	Acetic acid/ Vinegar 20%
*Nature's Wisdom Natural Weed Control	Water 96% Citric Acid & Acetic Acid 4%
*Nature's Wisdom Vinegar 20%	*Vinegar 20%

SCALE	
*Bonide® All Seasons® Horticultural Spray Oil	Petroleum Oil 98%
Bonide® Hot Pepper Wax Ready-to-Use	Capsaicin and Related Capsaicinoids 0.00001125 %
Concern® Insect Killing Soap	Potassium Salts of Fatty Acid 2%
Fertilome® Dormant Oil	*Parrafinic Oil
Green Light® Bioganic Home & Garden Insect Spray	Thyme Oil 0.33% Clove Oil 0.33% Sesame Oil 0.33%
Lily Miller® Vegol™ Year Round Pesticidal Oil	Canola Oil 96%
Monterey All Natural Mite & Insect Control RTU	Rosemary Oil .04 Sesame Oil .04% Peppermint Oil .03% Thyme Oil .03% Cinnamon Oil .02% Malic Acid .02%
Nature's Guide Mosquito Repellent	Citronella Oil 5%
Organicide Organic Insecticide & Fungicide	Sesame Oil .10%
*Ortho® Ecosense Brand Outdoor Insect Killer	Pyrethrin .018% Canola Oil 1%
*Ortho® Volck® Oil Spray	Petroleum Oil 97%
Safer® 3 in 1 Spray	Potassium Salt of Fatty Acid .75% Sulfur .40%
Safer® Insecticidal Soap Multi-purpose Insect Killer w/Seaweed	Potassium Salts of Fatty Acid Soap 2%

SNAILS & SLUGS	
Copper Barrier Tape	
Bayer Advanced™ Snail & Slug Killer Bait	Iron Phosphate 1%
Green Light® Snail and Bug Bait	Orthoboric Acid 5%
Monterey Sluggo™ Iron Plus	Iron phosphate 1% Spinosad 0.07%
Ortho® Ecosense Brand Slug and Snail Killer	Iron Phosphate 1%

SPIDER MITES	
*Bonide® All Seasons® Horticultural Spray Oil	Petroleum Oil 98%
Bonide® Hot Pepper Wax Ready-to-Use	Capsaicin and Related Capsaicinoids 0.00001125 %
Concern® Multi-Purpose Insect Killer	Pyrethrins 0.24% Potassium Salts of Fatty Acid 20%
Fertilome® Dormant Oil	%Parrafinic Oil
Garden Safe® Fungicide 3-in-1 Ready-to-Use	*Neem Oil 0.9%
Green Light® Bioganic Home & Garden Insect Spray	Thyme Oil 0.33% Clove Oil 0.33% Sesame Oil 0.33%
Green Light® Lawn & Garden Spray w/Spinosad	*Spinosad 0.5%
Green Light® Neem Concentrate	*Extract of Neem Oil 70%
*Monterey Take Down™ Garden Spray	Pyrethrin 0.018% Canola Oil 1%
Nature's Guide Mosquito Repellent	Citronella Oil 5%
*Ortho® Ecosense Brand Outdoor Insect Killer 677026-239	Pyrethrin .018% Canola Oil 1%
*Ortho® Volck® Oil Spray	Petroleum Oil 97%
Safer® 3 in 1 Spray	Potassium Salt of Fatty Acid .75% Sulfur .40%

STINK BUGS	
Floating Row Cover	
Bonide® Hot Pepper Wax Ready-to-Use	Capsaicin and Related Capsaicinoids 0.00001125 %

WEEDS - Pre emergent	
Concern® Weed Prevention Plus™ 8-2-4	Corn Gluten 100%

WEEDS - Post emergent	
Bioganic™ Spot Weeder Ready-to-Use	Phenethyl Propionate 2.5% Eugenol 2.5%
**Eliminator® Weed & Grass Killer	Glyphosate 2%
**Eraser	Glyphosate 41%
Finale® Weed and Grass Killer Concentrate	Glufosinate-ammonium 1.0%
Green Light® Organic Spot Weeder	2-phenethyl propionate 2.5% Eugenol 2.5%
*Maestro Gro Vinegar	Acetic Acid/ Vinegar 20%
*Nature's Wisdom Natural Weed Control	Water 96% Citric Acid & Acetic Acid 4%
*Nature's Wisdom Vinegar 20%	Vinegar 20%
Ortho® Ecosense Brand Organic Weed & Grass Killer	Phenethyl Propionate Eugenol 2.5% Sodium Laurel Sulfate .05%