

KEY

Pesticide Types: A=adjuvant, F=fungicide, H=herbicide, I= insecticide, M=molluscicide, P=plant hormone, V=vertebrate, W=herbicide in water, Z=public health/ mosquitoes,

Use Category: A = allowed, L= limited, L* = special concern

Hazard Tier: *=highest hazard, **=lowest hazard, /=insufficient data

Pesticide Type	Use Category	Hazard Tier	Product Name	Active Ingredients	EPA Reg #	Use Limitations	Amount used in 2002	Amount used in 2003
A	A	***	CMR Silicone Surfactant	polymethylsiloxane, nonionic	1050775-50025-AA			
A	A	***	Spraytech Oil	soybean oil	65328-50001-AA		5.75 gals	
F	L*	*	3336 WP	methyl thioallophanate	1001-63-AA	For use in greenhouse situations only	4.8 lbs	5.1 lbs
F	PENDING	PENDING	Agri-Fos Systemic Fungicide	potassium phosphite 45.8%	71962- 1-AA	For use on oaks (<i>Quercus</i> spp.) infected with sudden oak death syndrome		
F	L*	*	Heritage Fungicide	azoxystrobin	10182-408-AA-10182	Consider/emphasize use of compost tea for preventative. To be used only as a spot treatment on greens, highest profile athletic fields. Improve aeration and monitoring programs.	2.00 lbs	1.3 lbs
F	A	***	Kaligreen	potassium bicarbonate	70231-1-AA		1.97 lbs	2.3 lbs
F	L	*	Proturf Systemic Fung.	thiophanate-methyl	538-88-ZB-538	Greens, highest profile athletic fields.	93 lbs	113 lbs
F	A	/	Root Shield Drench	<i>Trichoderma harzianum</i>	68539-4-ZB-68539			
F	L*	*	Rootone Rooting Hormone	Thiram	264-499-AA-71004	Nursery use only. Problem with mixing and storage due to talc. Consider Dip'n Grow as alternative.	0.125 lbs	0.5 lbs
F	A	/	Serenade	<i>Bacillus subtilis</i>	69592-4-AA			
F	A	/	TurfShield	<i>Trichoderma</i> strain	68539-3-ZC		568 lbs	
F/I	A	**	JMS Stylet Oil	petroleum distillates	65564-1-AA		4.06 gals	1.4 gals
H	L	/	EcoExempt HC	eugenol (clove oil) 21.4%, 2-phenethyl propionate 21.4%	Exempt from EPA Reg.	Do not use in enclosed areas.		
H	L	**	Ezject Selective Injection Herbicide	glyphosate	524-435-AA-524	Tree stump injection especially where resprouting is likely, prefer mechanical methods when possible such as stump grinding	0.19 lbs + 0.002 gals	0.1 lbs + 0.03 gals
H	L	**	Garlon 4	triclopyr	62719-40-ZB	Targeted treatment of invasive exotics in parks, natural areas, right of ways. OK for fuel reduction, pilot alternative strategies.	19.30 gals	8.6 gals
H	L	/	Matran 2	clove Oil	Exempt from EPA Reg.	Do not use in enclosed areas.		
H	L*	**	Oust XP Herbicide by DuPont	sulfometuron-methyl	352-601-AA	For use only on airport operational areas subject to FAA requirements.	2.63 lbs	8.6 lbs
H	L*	**	Pendulum WDG Herbicide	pendimethalin	241-340-AA	One year limit. SFIA landscape use only. Use weed cloth whenever possible. Limit to high priority areas, including new plantings in hazardous areas too dangerous for handweeding. Renovations require exemption. One-year exemption for experimental use on <i>Ehrharta</i> in arboretum	2.33 lbs	8.34 lbs
H	L*	*	Proturf New K-O-G Weed Control	dicamba	538-112-AA-538	One year limit. Spot application on greens only when hand weeding is not feasible. Only for <i>Soliva sessilis</i> and <i>Cotula mexicana</i> in golf greens. Require comparison with Vanquish, handweeded section of bowling greens.	95.5 lbs	369 lbs

Inclusion of products on this list is not meant as an endorsement or claim of efficacy by the City/County of San Francisco.

(^) Hazard Tiers: * = most hazardous, *** = least hazardous, / = insufficient information to classify

Pesticide Type	Use Category	Hazard Tier	Product Name	Active Ingredients	EPA Reg #	Use Limitations	Amount used in 2002	Amount used in 2003
H	L	**	Roundup Pro Herbicide	glyphosate	524-475-ZA-524	Spot application of areas inaccessible or too dangerous for hand methods, right of ways, utility access, fire prevention. Use for cracks in hardscape and edging only as last resort. OK for renovation but must put in place weed prevention measures.	231.16 gals	63 gals
H	L	**	Roundup ProDry	glyphosate	524-505-AA-524	same limitations as Roundup Pro	50 lbs + 0.53 gals	204 lbs
H	L	**	Turflon Ester (post)	triclopyr	62719-258-AA-62719	Targeted treatment of turf; broadcast application requires exemption	1.81 gals	12.1 gals
I	L	*	20 Mule Team Tim-Bor Industrial	disodium octaborate	1624-39-ZC	For control and prevention of termites, wood-destroying beetles, and carpenter ants. Recommendation of Branch III pest control operator required for termites and beetles; recommendation of Branch II pest control operator required for carpenter ants.	977.5 lbs	
I	A	**	Avert Cockroach Bait Station	abamectin	499-467-AA			
I	A	**	Avert Cockroach Gel	abamectin	499-410-AA		0.03 gals	0.02 gals
I	L	**	Avid 0.15 EC	avermectin	618-96-AA	Nursery use only.	0.30 gals	0.27 gals
I	L	**	Azatin XL	azadirachtin	70051-27-AA-59807	Nurseries and established plants for interiorscapes.	0.01 gals	0.06 gals
I	L	***	BotaniGard ES	<i>Beauveria bassiana</i> strain	65626-8-ZA	Control of thrips on landscaped plants. Biological product but some concern over bee toxicity.	1.96 gals	1.2 gals
I	A	***	Cinnamite	cinnamaldehyde	58866-12-ZA		0.03 gals	0.02 gals
I	L	*	Conserve SC	spinosad	62719-291	For use as a last resort in greenhouses. If feasible, alternate with other products to avoid the development of resistance.		0.2 gals
I	A	***	EcoExempt IC	Rosemary oil 10%; wintergreen oil, mineral oil (inerts)	Exempt from EPA Reg.			
I	L	***	Enstar II Insect Growth Regulator	kinoprene	2724-476-AA-2724	Nurseries, roses.		0.4 gal
I	L	/	GC-Mite	cottonseed oil 40%, clove oil 20%, garlic extract 10%	Exempt from EPA Reg.	Limit use in enclosed areas.		
I	A	/	Gentrol IGR Concentrate	hydroprene	2724-351-ZA			
I	A	***	Hot Pepper Wax Insect Repellent	capsaicin .00014%	67238-1-AA			
I	A	***	Javelin WG	<i>Bacillus thuringiensis</i>	70051-66-AA			0.4 lbs
I	L*	*	Marathon 1% Granular Greenhouse & Nursery	imidacloprid	3125-452-AA	Nursery use for control of white fly, not for use in propagation beds.	19.75 lbs	33.5 lbs
I	A	**	Maxforce FC Professional Insect Control Ant Bait Stations	fipronil	64248-10-ZA-64248	Minimize use through prevention, possible concern over active ingredient.		0.1 lbs + 0.003 gals
I	L	**	MaxForce FC Professional Insect Control Ant Killer Gel	fipronil .001%	64248-21-ZA	Minimize use through prevention, possible concern over active ingredient.		
I	L	**	Maxforce FC Professional Insect Control Roach Bait Stations	fipronil	64248-11-ZA	Minimize use through prevention, possible concern over active ingredient.	0.03 lbs	1 lb

Inclusion of products on this list is not meant as an endorsement or claim of efficacy by the City/County of San Francisco.
(^) Hazard Tiers: * = most hazardous, *** = least hazardous, / = insufficient information to classify

Pesticide Type	Use Category	Hazard Tier	Product Name	Active Ingredients	EPA Reg #	Use Limitations	Amount used in 2002	Amount used in 2003
I	L	**	Maxforce IBF4 Carpenter Ant Bait	fipronil	64248-21-ZA	Minimize use through prevention, possible concern over active ingredient		0.31 lbs + 0.014 gals
I	L	**	Maxforce Roach Killer Bait Gel	fipronil	64248-14-AA	Minimize use through prevention, possible concern over active ingredient	0.51 lbs + 0.03 gals	2.9 lbs + 0.07 gals
I	L	**	M-pede Insecticide/Fungicide	potassium salts /fatty acids	53219-6-ZC	Nursery, specialty gardens, and Africanized Honey Bees.	6.60 gals	8 gals
I	L	**	Niban Granular Bait	orthoboric acid	64405-2-AA	Outdoor restricted to planted areas, prefer containers; indoor must be in containers or inaccessible to humans		14.2 lbs
I	L	***	Orange Guard	d-limonene	61887-1-AA	Contact insecticides should be minimized especially indoors.	0.25 lbs + 0.03 gals	0.04 gals
I	A	**	Prescription Treatment Brand Advance Liquid Ant Bait	boric acid 1%	56- 72-AA- 499			2.6 lbs
I	L	**	PT Brand Wasp-Freeze Wasp and Hornet Killer Formula 1	phenothrin, allethrin, CO2	499-362-ZA-499	Use only when a concern for public safety.	20.96 gals	9.4 gals
I	A	***	Roach Terminal	oxypurinol, xanthine	1001-73-AA-1001			
I	L	**	Saf-T-Side	paraffinic oil	48813-1-AA	Trace of alkyl-phenol ethoxylates, avoid contact with surface waters. Try Spraytech first.		
I	L	**	Terro Ant Killer II Liquid Ant Baits	sodium tetraborate	149-8-ZB-149		2.46 gals	0.11 lbs + 1.6 gals
I	L	**	The Ecology Works Dust Mite and Flea Control	disodium octaborate tetrahydrate (DOT) (98%)	67419- 1-ZB	For flea and dust mite control when mechanical methods are impractical, in conjunction with prevention. Limit human exposure to dust.		
I	A	**	Uncle Alberts Ant Bait	disodium Octaborate Tetrahydrate	73340-1			0.18 gals
I	PENDING	PENDING	Victor Poison Free Flying Insect Killer	Mint Oil 4.0%, Sodium Lauryl Sulfate 0.1%, Inert Ingredients 95.9%, Water 93.4%, CO ² 2.5%	SKU 7094733	One-year trial period for wasps. Limit use indoors.		
M	A	***	Sluggo Slug and Snail Bait	iron phosphate	67702-3-AA			82 lbs
P	A	***	Dip'n Grow	indole-3-butyric acid	64388-1-AA			
V	L	*	Contrac All-Weather Blox	bromadiolone	12455-79-AA	High concern over 2nd poisoning, see site specific limits.	46.81 lbs	66 lbs
V	L	**	Ditrac supersize blox	diphacinone	12455-14-ZA	Concern over 2nd poisoning, see site specific limits.	1119 lbs	497 lbs
V	L	**	Eaton's All-Weather Bait Blocks Rodenticide with Apple Flavorizer	diphacinone 0.005%	56-41-ZA-56	Concern over 2nd poisoning, see site specific limits.		6.3 lbs
V	L	/	Generation Mini-blocks	diethialone	7173-206-AA	Unknown effects on 2nd poisoning, single feed,		95 lbs
V	L	**	Gopher Getter type 2 Bait by Wilco	chlorophacinone	36029-50003-AA	Damage to: dams, levies, athletic fields, active recreation areas, structures, high cultural value or landmark areas. Public Health concerns.	1.49 lbs	2.8 lbs
V	L	**	JB Eaton Top Gun All-Weather Bait Block Rodenticide	bromethalin	67517-66-56	Limited use to avoid rodent aversion to one specific bait. Use only in locked bait stations. High concern over secondary poisoning of birds.		32.2 lbs
V	L	**	JT Eaton Answer for the Control of Pocket Gophers	diphacinone	56-57-AA-56	Damage to: dams, levies, athletic fields, active recreation areas, structures, high cultural value or landmark areas. Public Health concerns.	304 lbs	379 lbs

Inclusion of products on this list is not meant as an endorsement or claim of efficacy by the City/County of San Francisco.

(^) Hazard Tiers: * = most hazardous, *** = least hazardous, / = insufficient information to classify

Pesticide Type	Use Category	Hazard Tier	Product Name	Active Ingredients	EPA Reg #	Use Limitations	Amount used in 2002	Amount used in 2003
V	L	*	Maki Mini Blocks	bromadiolone	7173-202-AA	High concern over 2nd poisoning, see site specific limits	28.38 lbs	285 lbs
V	L	*	Weatherblok Bait with Bitrex	brodifacoum	10182-339-AA-10182	Extreme concern over 2nd poisoning, see site specific limits	663.83 lbs	512 lbs
W	L	**	Aquamaster Herbicide (equivalent to Rodeo)	glyphosate	524-343-ZF	May damage non-target plants. Use for emergent plants in ponds, lakes, drainage canals, and areas around water or within watershed areas. Only as a last resort when other management practices are ineffective. NOTE: Equivalent to "Rodeo Emerged Aquatic Weed and Brush Herbicide," an older product. Rodeo in storage may be used under the same limitations.		
W	A	***	Aquashade	acid yellow-23,acid blue 4	33068-1-AA		16 gals	36 gals
W	L	**	Sonar A.S.	fluridone	67690-4-AA	Emergent plants in ponds, lakes, drainage canals. Only as a last resort when other mgmt. practices are ineffective.		0.25 gals
Z	L	**	Agnique MMF	isooctadecyl-hydroxyl	2302-14-AA	Standing water, human health concerns.	277.4 lbs + 0.92 gals	7.25 gals
Z	L	**	Golden Bear Mosquito Larvicide GB-1111	aliphatic petroleum hydrocarbon	8329- 72-AA	Apply only in conjunction with appropriate prevention measures (such as increasing water flow), or when prevention measures are impractical. Use within requirements on vector control activities set by the Calif. Dept. of Health Services.		3.8 gals
Z	A	***	Mosquito control - microbial Vectolex G Biological Mosquito Larvicide Vectolex Wdg Biological Larvicide Mosquito Dunks Vectobac-G Biological Mosquito Larvicide Aquabac 200G Vectobac 12as Biological Larvicide	<i>Bacillus sphaericus</i> <i>Bacillus thuringiensis</i>	275-77AA-275 73049-57-AA 6218-47-ZB-6218 275-50-AA-275 (OLD), 73049- 10-AA (NEW) 62637- 3-ZA 73049- 38-AA		46.04 lbs 1.22 lbs 129 lbs	37.5 lbs 8 lbs 110 lbs
Z	L	**	Mosquito control - IGRs Altosid Briquets by Zoecon Zoecon Altosid Xr-G Zoecon Altosid Xr Extended Residual Briquets Zoecon Altosid Pellets Zoecon Altosid Liquid Larvicide Mosquito Growth Regulator	S-methoprene	2724-375-ZA-2724 2724- 451-ZA 2724- 421-ZA 2724- 448-ZA 2724- 392-ZA	Not for use in estuarine environments, except for San Mateo Mosquito Abatement District applications at airport and Sharp Park.		9 lbs

Inclusion of products on this list is not meant as an endorsement or claim of efficacy by the City/County of San Francisco.
(^) Hazard Tiers: * = most hazardous, *** = least hazardous, / = insufficient information to classify