

ATTACHMENT B. DRAFT 2015 San Francisco Reduced-Risk Pesticide List

(applicable to City-owned properties only)

STATUS	Product Name	Type	EPA #/ SF code*	Ingredients	Pesticide Hazard Tier	Use Limitation Type	Use Limitations Other uses require an exemption (click here)	CHANGES MADE	Amount used, 2013* (lbs AI)
GENERAL USE PESTICIDES									
	Actinovate	Fungicide	73314-1	<i>Streptomyces lydicus</i> WYEC 108	Least hazardous (Tier III)	Least Limited			0.00000
	Advion Ant Bait Arena (Dupont)	Insecticide	352-664	Indoxacarb 0.1%	Least hazardous (Tier III)	Least Limited			0.00000
	Advion Ant Gel (Dupont)	Insecticide	352-746	Indoxacarb 0.05%	Least hazardous (Tier III)	Least Limited			0.00000
	Advion Cockroach Bait Arena (Dupont)	Insecticide	352-668	Indoxacarb 0.5%	Least hazardous (Tier III)	Least Limited			0.00004
	Advion Cockroach Gel Bait (Dupont)	Insecticide	352-652	Indoxacarb 0.6%	Least hazardous (Tier III)	Least Limited			0.00018
	Agri-Fos Systemic Fungicide	Fungicide	71962-1	Potassium phosphite 45.8%	Least hazardous (Tier III)	Least Limited	For use on high-value oaks (<i>Quercus</i> spp.) susceptible to Sudden Oak Death, or in experiments with Sudden Oak Death control. When labelling permits, use on an experimental basis for Anthracnose control on sycamores.		13.10291
ADDED	Alligare Rotary 2 SL	Herbicide	81927-6	Imazapyr, isopropylamine salt 28%	More hazardous (Tier II)	More Limited	For invasive species in natural areas where other alternatives are ineffective, especially for invasive legumes and composites such as yellow star thistle and purple star thistle. USE UP EXISTING STOCKS		-
CHANGED	Aquamaster (Roundup Custom) Herbicide	Herbicide	524-343	Glyphosate, isopropylamine salt 53.8%	More hazardous (Tier II)	More Limited	Terrestrial uses: Spot application of areas inaccessible or too dangerous for hand methods, right of ways, utility access, or fire prevention. Limit to 2% for hardscape, decomposed granite and edging. OK for renovations but must put in place weed prevention measures. Aquatic uses: Use for emergent plants in ponds, lakes, drainage canals, and areas around water or within watershed areas. Note prohibition on use within buffer zone (generally 60 feet) around water bodies in red-legged frog habitat.	Added "Roundup Custom" - new name for same product	87.35010

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CHANGED	Avenger	Herbicide	82052-1	d-Limonene 60%	More hazardous (Tier II)	More Limited	Burndown herbicide to replace Greenmatch. Not for use near water. USE UP EXISTING STOCKS.	Added "USE UP EXISTING STOCKS"	2.35950
	Azatin XL	Insecticide	70051-27	Azadirachtin 3%	Most hazardous (Tier I)	More Limited	For greenhouses and established plants for interiorscapes. Do not apply on flowering plants when bees are active. USE UP EXISTING STOCKS - Azatrol is safer alternative.		0.00000
	Azatrol EC Insecticide	Insecticide	2217-836	Azadirachtin (2328) 1.2%	Most hazardous (Tier I)	More Limited	For greenhouses and established plants for interiorscapes. Do not apply on flowering plants when bees are active.		0.00000
	Bacillus thuringiensis insecticides (excluding mosquito control)	Insecticide	Various	<i>Bacillus thuringiensis</i> (various subsp.)	Least hazardous (Tier III)	Least Limited			0.00000
	BestYet Cedarcide	Insecticide	exemptprod-009	Cedarwood oil, amorphous silica	Least hazardous (Tier III)	Least Limited			0.00000
	Bond Spreader-Sticker	Adjuvant	34704-50033	Synthetic carboxylated latex 50%, primary aliphatic	Least hazardous (Tier III)	Least Limited			-
REMOVED	BotaniGard ES	Insecticide	65626-8 [INACTIVE], 82074-1 [ACTIVE]	Beauveria bassiana strain GHA 11.3%	Least hazardous (Tier III)	Least Limited	Control of thrips on landscaped plants. Do not apply on flowering plants when bees are active. USE UP EXISTING STOCKS		0.00000
	CMR Silicone Surfactant	Adjuvant	1050775-50025 [INACTIVE]	Polymethylsiloxane, nonionic	Least hazardous (Tier III)	More Limited			-
	Competitor	Adjuvant	2935-50173	Ethyl oleate	Least hazardous	Least			-
	Conserve SC Turf and Ornamental	Insecticide	62719-291	Spinosad 11.6%	More hazardous (Tier II)	Least Limited	For use as a last resort in greenhouses. If feasible, alternate with other products to avoid the development of resistance. Use on high value ornamentals only.		0.00983
	Critter Ridder	Mammal repellent	50932-10	Oil of black pepper 0.48%	Least hazardous (Tier III)	Least Limited			0.00000
	Debug Turbo	Nematicide	70310-5	Fats & glyceridic oils margosa 65.8%	More hazardous (Tier II)	Least Limited			270.52487
	Detour	Mammal repellent	exemptprod-015	White pepper 3%, white mineral oil 87%, silica 10%	Least hazardous (Tier III)	Least Limited			0.00000

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	Eco Exempt/Essentria Jet Wasp and Hornet Killer	Insecticide	exemptprod-007	2-phenethyl propionate 2%, rosemary oil 3%	Least hazardous (Tier III)	Least Limited	Preferred alternative to Wasp Freeze but may not act quickly enough during late summer, when yellowjackets are most aggressive. Consider digging up nest and baiting with honey in evening to attract raccoons.		1.40563
REMOVED	EcoPCO DX Dust Insecticide	Insecticide	67425-16	Pyrethrins 0.4%, 2-Phenethyl Propionate 1%	More hazardous (Tier II)	More Limited	Only for use on rat mites, bedbugs, lice, and yellowjackets in walls when nonchemical techniques prove ineffective.		0.00000
CHANGED	Fiesta	Herbicide	67702-26	Iron HEDTA 26.52%	Most hazardous (Tier I)	More Limited		Moved out of golf products section. Changed text from "For use on golf greens for spot treatment."	
ADDED	Cimexa Insecticide Dust	Insecticide	73079-12	Amorphous silica gel 100%	Least hazardous (Tier III)	Least Limited	Only for use on rat mites, bedbugs, lice, and yellowjackets in walls when nonchemical techniques prove ineffective.		
	Enstar II Insect Growth Regulator (Enstar 5E)	Insecticide	2724-476	S-kinoprene 64.1%	More hazardous (Tier II)	More Limited	USE UP EXISTING STOCKS. For use only in nurseries and on roses.		0.00000
	Essentria IC3	Insecticide	exemptprod-013	Rosemary oil 10%, geraniol 5%, peppermint oil 2%, wintergreen oil, white mineral oil, vanillin, polyglyceryl oleate	Least hazardous (Tier III)	Least Limited			0.00000
	Garlon 4 Ultra	Herbicide	62719-527	Triclopyr, butoxyethyl ester 60.45%	Most hazardous (Tier I)	Most Limited: Must justify use	Use only for targeted treatments of high profile or highly invasive exotics via dabbing or injection. May use for targeted spraying only when dabbing or injection are not feasible. Follow label requirements regarding exposure to mist. HIGH PRIORITY TO FIND ALTERNATIVE		6.67678
	Gentrol Point Source Roach Control Device	Insecticide	2724-469	Hydroprene 96%	Least hazardous (Tier III)	Least Limited			0.87904

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	Habitat	Herbicide	241-426	Imazapyr, isopropylamine salt, 28%	More hazardous (Tier II)	More Limited	Preferred alternative to triclopyr for use on invasive weeds in natural areas, such as broom, Cotoneaster, or Arundograss. USE UP EXISTING STOCK - REPLACE WITH POLARIS		0.02005
	Intice Thiquid Ant Bait	Insecticide	73079-7	Borax, 5%	Least hazardous (Tier III)	Least Limited			0.14086
REMOVED	Marathon 1% Granular Greenhouse & Nursery Insecticide	Insecticide	3125-452-AA (INACTIVE) 432-1329 (ACTIVE)	Imidacloprid 1%	Most hazardous (Tier I)	Most Limited: Must justify use	Nursery use for control of white fly, not for use in propagation beds. Only effective on quick-growing plants. HIGH PRIORITY TO FIND ALTERNATIVE		0.00090
	Maxforce FC Magnum Roach Killer Bait Gel	Insecticide	432- 1460	Fipronil 0.05%	More hazardous (Tier II)	More Limited	Not for use in outdoor areas with potential rain exposure		0.00000
	Maxforce FC Professional Insect Control Ant Bait Stations	Insecticide	432-1256	Fipronil 0.01%	More hazardous (Tier II)	More Limited	Not for use in outdoor areas with potential rain exposure		0.00000
	Maxforce FC Professional Insect Control Roach Bait Stations	Insecticide	432-1257	Fipronil 0.05%	More hazardous (Tier II)	More Limited	Not for use in outdoor areas with potential rain exposure		0.00000
	Maxforce FC Professional Insect Control Roach Killer Bait Gel	Insecticide	432-1259	Fipronil 0.01%	More hazardous (Tier II)	More Limited	Not for use in outdoor areas with potential rain exposure		0.00000
	Milestone	Herbicide	62719-519	Aminopyralid, trii- sopropanolamine salt (5928) 40.6%	More hazardous (Tier II)	Most Limited: Must justify use	For invasive species in natural areas where other alternatives are ineffective, especially for invasive legumes and composites such as yellow star thistle and purple star thistle.		0.66098
	M-pede Insecticide/Fungicide	Insecticide	62719-515	Potash soap 49%	Least hazardous (Tier III)	More Limited	Nursery, specialty gardens, and Africanized Honey Bees.		0.00000
REMOVED	Niban Granular Bait (equivalent to Terro Multipurpose Insect Bait)	Insecticide	64405-2-AA	Boric acid 5%	Least hazardous (Tier III)	Least Limited	Outdoor restricted to planted areas, prefer containers; indoor must be in containers or inaccessible to humans. USE UP EXISTING STOCKS		0.63366
	Nufarm Polaris Herbicide	Herbicide	228-534	Imazapyr, isopropylamine salt, 28%	More hazardous (Tier II)	More Limited	Preferred alternative to triclopyr for use on invasive weeds in natural areas, such as broom, Cotoneaster, or Arundograss.		0.38055

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	OhYeah!	Insecticide	exemptprod-002	Sodium lauryl sulfate	Least hazardous (Tier III)	Least Limited			
	Orange Guard	Insecticide	61887-1	D-limonene 5.8%	More hazardous (Tier II)	More Limited	Soap spray is preferred for removing ant trails. Minimize use in enclosed areas due to scent. Wear protective equipment. Potential aquatic hazard - do not apply directly to water.		0.00262
	Organocide	Insecticide	exemptprod-010	Sesame oil 5%	Least hazardous (Tier III)	Least Limited			0.00000
	Oust XP Herbicide (DuPont)	Herbicide	352-601	Sulfometuron-methyl 75%	More hazardous (Tier II)	Most Limited: Must justify	For use only on airport operational areas subject to FAA requirements. HIGH PRIORITY TO FIND ALTERNATIVE		2.24121
CHANGED	Pentrabark	Adjuvant	83416-50001	Polyalkyleneoxide modified heptamethyltrisiloxa	Least hazardous (Tier III)	More Limited		Removed limitation "For use with Agrifos only"	
	Prescription Treatment Brand Perma-Dust	Insecticide	499-384	Boric acid 35%, petroleum distillates-hydotreated light 10%, HFC-134A, 1,1 difluoroethane	More hazardous (Tier II)	More Limited	Use in situations where adhesion of dust is important and non-aerosol boric acid products are ineffective.		0.27568
	Prescription Treatment Brand Wasp-Freeze Wasp and Hornet Killer Formula 1	Insecticide	499-362	Phenothrin 12%, d-trans allethrin .129%, CO2	Most hazardous (Tier I)	More Limited	Use only when a concern for public safety, and in situations where use of EcoExempt product is inadequate or unsafe.		0.00011
	Roundup Promax Herbicide	Herbicide	524-579	Glyphosate, isopropylamine salt 48.7%	More hazardous (Tier II)	More Limited	Use of Aquamaster + Competitor is preferred except in situations where rainfastness is needed. Spot application of areas inaccessible or too dangerous for hand methods, right of ways, utility access, or fire prevention. Use 2% dilution for cracks in hardscape, decomposed granite and edging only as last resort. OK for renovations but must put in place weed prevention measures. Note prohibition on use within buffer zone (generally 60 feet) around water bodies in red-legged frog habitat.		170.24406
	Shake-Away Coyote Urine Repellant Granules	Mammal repellent	exemptprod-014	Coyote urine 5%, limestone 95%	Least hazardous (Tier III)	Least Limited			0.05401

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	Sluggo Slug and Snail Bait	Molluscicide	67702-3	Phosphoric acid, iron(3+) salt (1:1)	Least hazardous (Tier III)	Least Limited			0.01670
	Spraytech Oil	Insecticide	65328-50001	Soybean oil	More hazardous (Tier II)	Least Limited			-
CHANGED	Stalker herbicide	Herbicide	241-398	Imazapyr, isopropylamine salt 28%	More hazardous (Tier II)	More Limited	For invasive species in natural areas where other alternatives are ineffective, especially for invasive legumes and composites such as yellow star thistle and purple star thistle. USE UP EXISTING STOCKS	Added "USE UP EXISTING STOCKS"	0.06522
	Terro Ant Killer II, Terro Ant Killer II Liquid Ant Baits, Terro-PCO Liquid Ant Bait	Insecticide	149-8	Sodium tetraborate decahydrate 5.4%	Least hazardous (Tier III)	Least Limited			0.00151
CHANGED	Turflon Ester	Herbicide	62719-258	Triclopyr, butoxyethyl ester 61.6%	Most hazardous (Tier I)	Most Limited: Must justify use	Targeted treatment of turf. HIGH PRIORITY TO FIND ALTERNATIVE. Note prohibition on use within buffer zone (generally 60 feet) around water bodies in red-legged frog habitat	Removed "- Lake Merced, Golden Gate Park." since these are not designated critical habitat	0.14400
GOLF PRODUCTS									
REMOVED	3336 F Fungicide (Clearys)	Fungicide	1001-69	Thiophanate-methyl 42.5%	Most hazardous (Tier I)	Most Limited: Must justify use	For use on Harding Park/Fleming golf courses only in preparation for tournament play. HIGH PRIORITY TO FIND ALTERNATIVE		86.16999
ADDED	Nufarm Quinclorac SPC 75 DF Herbicide	Herbicide	228-592	Quinclorac, 75%	More hazardous (Tier II)	More Limited	For use on Harding Park/Fleming golf courses only in preparation for tournament play		-
	Fosphite Fungicide	Fungicide	68573-2	Potassium phosphate	Least hazardous (Tier III)	More Limited	Only for use on golf courses.		0.00000
CHANGED	Heritage Fungicide	Fungicide	100-1093	Azoxystrobin 50%	Most hazardous (Tier I)	Most Limited: Must justify use	For use on Harding Park/Fleming golf courses only in preparation for tournament play	Changed limitations from "To be used only on high profile sports greens. "	6.62500
	Lontrel Turf and Ornamental Herbicide	Herbicide	62719-305	Clopyralid, 40.9%	More hazardous (Tier II)	More Limited	For use on Harding Park/Fleming golf courses only in preparation for tournament play		7.68729
ADDED	Primo Maxx	Growth regulator	100-937	Trinexapac-ethyl 11.3%, tetrahydrofurfuryl alcohol (THFA)	Most hazardous (Tier I)	More Limited	Only use on City-owned golf courses in preparation for major golf tournaments.		0.15807

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	Sapphire	Herbicide	62719-547	Penoxsulam	More hazardous (Tier II)	More Limited	Only use on City-owned golf courses in preparation for major golf tournaments.		0.07579
ADDED	Tourney	Fungicide	59639-144	Metconazole, 50%; Silica-crystalline quartz	Most hazardous (Tier I)	More Limited	For management of pink snow mold (Microdochium nivale) on Harding Park/Fleming golf courses only in preparation for tournament play.		-
	Trimmit 2SC Plant Growth Regulator for Turfgrass	Growth regulator	100-1014	Pacllobutrazol 22.3%	More hazardous (Tier II)	More Limited	For use only on golf courses in preparation for tournament play.		0.20364
	Trinity TM	Fungicide	7969-257	Triticonazole, 19.2%	More hazardous (Tier II)	More Limited	For use on Harding Park/Fleming golf courses only in preparation for tournament play.		-
REMOVED	Triton Flo (Chipco)	Fungicide	432-1487	Triticonazole, 30.1%	More hazardous (Tier II)	More Limited	For use on Harding Park/Fleming golf courses only in preparation for tournament play		2.54291
VECTOR CONTROL PRODUCTS									
	Agnique MMF-G	Mosquito control - other	53263-30	Poly(oxy-1,2-ethanediyl),alpha-isodecyl-omega-hydroxy-phosphate 32%	More hazardous (Tier II)	Most Limited: Must justify use	Use for late instar mosquito larvae and pupae, in combination with microbial products. DISCONTINUING - USE UP REMAINING STOCK		14.20868
	BVA2 Mosquito Larvicide	Mosquito control - other	70589-1	Highly refined petroleum distillate (mineral oil)	Most hazardous (Tier I)	More Limited	For use only at San Francisco International Airport properties (within San Mateo Mosquito Abatement District)		1437.11146
	ContraC All-Weather Blox	Rodenticide	12455-79	Bromadiolone 0.005%	Most hazardous (Tier I)	Most Limited: Must justify use	HIGH PRIORITY FOR REMOVAL. USE UP EXISTING STOCKS. For use only in San Francisco International Airport Terminal Areas, or for commercial lessees on city properties that are not adjacent to natural areas. In commercial establishments, use of product shall be a last resort after other, less-toxic measures have been implemented, including sanitation and trapping, and only where a significant public health hazard is recognized. In all cases, monitoring shall be used whenever feasible to minimize rodenticide use.		0.00000

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	JT Eaton Bait Block Rodenticide with Peanut Butter Flavorizer	Rodenticide	56-42	Diphacinone 0.005%	More hazardous (Tier II)	More Limited	See Site-Specific Limitations. For rat control only in situations with high public health concerns, where trapping is infeasible. In all cases, monitoring shall be used whenever feasible to minimize rodenticide use. HIGH PRIORITY TO FIND ALTERNATIVE.		0.00000
	Mosquito control - microbial	Mosquito control - microbial	Various	<i>Bacillus thuringiensis</i> (Berliner or Israelensis) or <i>Bacillus sphaericus</i>	Least hazardous (Tier III)	Least Limited	Any microbial mosquito larvicide with active ingredients <i>Bacillus thuringiensis</i> (Berliner or Israelensis) or <i>Bacillus sphaericus</i> is categorized as Least limited.		0.24314
	Mosquito control products - IGRs	Mosquito control - IGRs	Various	S-Methoprene (5026)	Least hazardous (Tier III)	More Limited	Use for tanks with limited access, or other areas where frequent treatments are infeasible. For City catchment basins, microbial products are preferred. Not for use in estuarine environments except under control of San Mateo Mosquito Abatement District.		53.01623
	Top Gun All Weather Bait Block Rodenticide	Rodenticide	67517-66	Bromethalin 0.01%	Most hazardous (Tier I)	Most Limited: Must justify use	For use only in City-owned sewer lines, San Francisco International Airport Terminal Areas, or for commercial lessees on city properties that are not adjacent to natural areas. In commercial establishments, use of product shall be a last resort after other, less-toxic measures have been implemented, including sanitation and trapping, and only where a significant public health hazard is recognized. In all cases, monitoring shall be used whenever feasible to minimize rodenticide use.		390.60937
*Some products, such as most rodenticides, have very small percentages of active ingredients and thus appear as "0"									