

2016 San Francisco Reduced-Risk Pesticide List
for City-owned properties

Red cells =removed from list
Yellow cells =changed wording
Green cells =added to list

Product Name	Type	EPA #/ SF code*	Ingredients	Pesticide Hazard Tier	Use Limitation Type	Use Limitations Other uses require an exemption (click here)	Changes	Usage 2014 (lbs a.i.)
GENERAL USE PESTICIDES								
Actinovate	Fungicide	73314-1	<i>Streptomyces lydicus</i> WYEC 108	Least hazardous (Tier III)	Least Limited			0.0069
Advion Ant Bait Arena (Dupont)	Insecticide	352-664	Indoxacarb 0.1%	Least hazardous (Tier III)	Least Limited			0.0002
Advion Ant Gel (Dupont)	Insecticide	352-746	Indoxacarb 0.05%	Least hazardous (Tier III)	Least Limited			0.0001
Advion Cockroach Bait Arena (Dupont)	Insecticide	352-668	Indoxacarb 0.5%	Least hazardous (Tier III)	Least Limited			0.0073
Advion Cockroach Gel Bait (Dupont)	Insecticide	352-652	Indoxacarb 0.6%	Least hazardous (Tier III)	Least Limited			0.0016
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.		9.4692
Alligare Rotary 2 SL	Herbicide	81927-6	Imazapyr, isopropylamine salt 28%	More hazardous (Tier II)	More Limited	For weeds in rights of way, or 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.	Removed "USE UP EXISTING STOCKS," added rights of way.	0.0000
Aquamaster (Roundup Custom) Herbicide	Herbicide	524-343	Glyphosate, isopropylamine salt 53.8%	Most hazardous (Tier I)	Most Limited	Subject to "Limitations on most restricted herbicides" Other limitations: For aquatic uses, use for emergent plants in ponds, lakes, drainage canals, and areas around water or within watershed areas.	Added limitations on most restricted herbicides. Removed terrestrial language and red-legged frog language (redundant).	59.6281
Avenger	Herbicide	82052-1	d-Limonene 60%	More hazardous (Tier II)	More Limited	Burndown herbicide. Not for use near water.	Removed "to replace Greenmatch" and "USE UP EXISTING STOCKS."	2.0625
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.		0.0094
Azatrol EC Insecticide	Insecticide	2217-836	Azadirachtin (2328) 1.2%	More hazardous (Tier II)	More Limited	For greenhouses and established plants for interiorscapes. Do not apply on flowering plants when bees are active.	Changed from Tier I to Tier II	0.0000
Bacillus thuringiensis insecticides (excluding mosquito control)	Insecticide	Various	<i>Bacillus thuringiensis</i> (various subsp.)	Least hazardous (Tier III)	Least Limited			0.0000
BestYet Cedarcide	Insecticide	exemptprod-009	Cedarwood oil, amorphous silica	Least hazardous (Tier III)	Least Limited			0.0000
Bond Spreader-Sticker	Adjuvant	34704-50033	Synthetic carboxylated latex 50%, primary aliphatic oxyalkylated alcohol 10%	Least hazardous (Tier III)	Least Limited			
CMR Silicone Surfactant	Adjuvant	1050775-50025 [INACTIVE]	Polymethylsiloxane, nonionic	Least hazardous (Tier III)	More Limited			
Competitor	Adjuvant	2935-50173	Ethyl oleate	Least hazardous (Tier III)	Least Limited			
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.		0.0000
Critter Ridder	Mammal repellent	50932-10	Oil of black pepper 0.48%	Least hazardous (Tier III)	Least Limited			0.7353
Debug Turbo	Nematicide	70310-5	Fats & glyceridic oils margosa 65.8%, azadirachtin 0.7%	More hazardous (Tier II)	Least Limited			0.0000

2016 San Francisco Reduced-Risk Pesticide List
for City-owned properties

Red cells =removed from list
Yellow cells =changed wording
Green cells =added to list

Product Name	Type	EPA #/ SF code*	Ingredients	Pesticide Hazard Tier	Use Limitation Type	Use Limitations Other uses require an exemption (click here)	Changes	Usage 2014 (lbs a.i.)
Detour	Mammal repellent	exemptprod-015	White pepper 3%, white mineral oil 87%, silica 10%	Least hazardous (Tier III)	Least Limited			0.0000
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.		0.0000
Fiesta	Herbicide	67702-26	Iron HEDTA 26.52%	Most hazardous (Tier I)	More Limited			2.5857
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.		0.0770
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.		0.0000
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			0.0000
Garlon 4 Ultra	Herbicide	62719-527	Triclopyr, butoxyethyl ester 60.45%	Most hazardous (Tier I)	Most Limited: Must justify use	Subject to "Limitations on most restricted herbicides" 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. HIGH PRIORITY TO FIND ALTERNATIVE	Added: Subject to "Limitations on most restricted herbicides" Removed: Follow label requirements regarding exposure to mist. HIGH PRIORITY TO FIND ALTERNATIVE	12.8564
Gentrol Point Source Roach Control Device	Insecticide	2724-469	Hydroprene 96%	Least hazardous (Tier III)	Least Limited			0.0227
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 Arundgrass. USE UP EXISTING STOCK - REPLACE WITH POLARIS		0.3129
Intice Thiquid Ant Bait	Insecticide	73079-7	Borax, 5%	Most hazardous (Tier I)	Least Limited		Changed to Tier I - EU	1.8625
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		0.0000
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		0.0000
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		0.0000
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		0.0001
Milestone	Herbicide	62719-519	Aminopyralid, triisopropylamine salt (5928) 40.6%	More hazardous (Tier II)	More Limited	For invasive species in natural areas or parklands where other alternatives are ineffective, especially for invasive legumes and composites such as yellow star thistle and purple star thistle.	Added "or parklands". Changed from "Most Limited" to "More Limited."	0.0381
M-pede Insecticide/Fungicide	Insecticide	62719-515	Potash soap 49%	Least hazardous (Tier III)	More Limited	Nursery, specialty gardens, and Africanized Honey Bees.		0.0000
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 Arundgrass.		2.4241
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.		0.0000
Organocide	Insecticide	exemptprod-010	Sesame oil 5%	Least hazardous (Tier III)	Least Limited			0.0000

2016 San Francisco Reduced-Risk Pesticide List
for City-owned properties

Red cells =removed from list
Yellow cells =changed wording
Green cells =added to list

Product Name	Type	EPA #/ SF code*	Ingredients	Pesticide Hazard Tier	Use Limitation Type	Use Limitations Other uses require an exemption (click here)	Changes	Usage 2014 (lbs a.i.)
Oust XP Herbicide (DuPont)	Herbicide	352-601	Sulfometuron-methyl 75%	More hazardous (Tier II)	Most Limited: Must justify use	For use only on airport operational areas subject to FAA requirements.	Removed: HIGH PRIORITY TO FIND ALTERNATIVE	3.4151
Pentrabark	Adjuvant	83416-50001	Polyalkyleneoxide modified heptamethyltrisiloxane	Least hazardous (Tier III)	More Limited			
Prescription Treatment Brand Perma-Dust	Insecticide	499-384	Boric acid 35%, petroleum distillates-hydrotreated 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.		0.0000
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.		0.0420
Roundup Promax Herbicide	Herbicide	524-579	Glyphosate, isopropylamine salt 48.7%	Most hazardous (Tier I)	More Limited	Subject to "Limitations on most hazardous herbicides" Use of Aquamaster + Competitor is preferred except in situations where rainfastness is needed. .	Added Subject to "Limitations on most hazardous herbicides" Removed: 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-leaved frog habitat	572.8034
Shake-Away Coyote Urine Repellant Granules	Mammal repellent	exemptprod-014	Coyote urine 5%, limestone 95%	Least hazardous (Tier III)	Least Limited			0.0500
Sluggo Slug and Snail Bait	Molluscicide	67702-3	Phosphoric acid, iron(3+) salt (1:1) 1%	Least hazardous (Tier III)	Least Limited			0.0025
Spraytech Oil	Insecticide	65328-50001	Soybean oil	More hazardous (Tier II)	Least Limited			0.0000
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		0.4477
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			0.0735
GOLF PRODUCTS								
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. USE UP EXISTING STOCKS.	Added USE UP EXISTING STOCKS	0.0000
Fosphite Fungicide	Fungicide	68573-2	Potassium phosphate	Least hazardous (Tier III)	More Limited	Only for use on golf courses.		25.4314
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		3.9500
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. May be used 1x/year in other golf courses on greens only.	May be used 1x/year in other golf courses on greens only.	6.7231
Primo Maxx	Growth regulator	100-937	Trinexapac-ethyl 11.3%, tetrahydrofurfuryl alcohol (THFA)	Most hazardous (Tier I)	More Limited	Only use on Harding/Fleming golf courses in preparation for major golf tournaments.	Changed "city-owned" to Harding/Fleming	3.7719
Quinclorac 1.5L	Herbicide	53883-336	Quinclorac, dimethylamine salt, 18.92%	More hazardous (Tier II)	More Limited	For use on Harding Park/Fleming golf courses only in preparation for tournament play.		0.0000
Sapphire	Herbicide	62719-547	Penoxsulam	More hazardous (Tier II)	More Limited	Only use on City-owned golf courses in preparation for major golf tournaments.		0.6337
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.		0.0000

2016 San Francisco Reduced-Risk Pesticide List
for City-owned properties

Red cells =removed from list
Yellow cells =changed wording
Green cells =added to list

Product Name	Type	EPA #/ SF code*	Ingredients	Pesticide Hazard Tier	Use Limitation Type	Use Limitations Other uses require an exemption (click here)	Changes	Usage 2014 (lbs a.i)
Trimmit 25C Plant Growth Regulator for Turfgrass	Growth regulator	100-1014	Paclotrazol 22.3%	More hazardous (Tier II)	More Limited	For use only on golf courses in preparation for tournament play.		1.7701
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. May be used 1x/year in other golf courses on greens only.	May be used 1x/year in other golf courses on greens only.	0.0000
Turfion Ester	Herbicide	62719-258	Triclopyr, butoxyethyl ester 61.6%	Most hazardous (Tier I)	Most Limited: Must justify use	Subject to "Limitations on most restricted herbicides". Targeted treatment of golf course turf. HIGH PRIORITY TO FIND ALTERNATIVE.	Moved to "Golf products" section. Added: Subject to "Limitations on most restricted herbicides". Removed: Red-legged frog language. Changed to "targeted treatment of golf course turf."	22.8895
VECTOR CONTROL PRODUCTS								
Agnique MMF-G	Mosquito control - other	53263-30	Poly(oxy-1,2-ethanediy),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		13.5800
BVA2 Mosquito Larvicide	Mosquito control - other	70589-1	Highly refined petroleum distillate (mineral oil)	More hazardous (Tier II)	More Limited	Use as a pupacide for public health mosquito treatments.	Tier changed from I to II. Removed: "For use only at San Francisco International Airport properties (within San Mateo Mosquito Abatement District)". Added: Use as a pupacide for public health mosquito treatments.	1628.4791
Conrac 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 inSan 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.		0.0012
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.		0.0380
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.		96.3120
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.		0.0000
Rodent control - diphacinone block baits	Rodenticide	Various	Diphacinone	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.		
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 by the San Francisco Dept. of Public Health. In all cases, monitoring shall be used whenever feasible to minimize rodenticide use.	Added: "by the San Francisco Dept. of Public Health."	0.0658
*Some products, such as most rodenticides, have very small percentages of active ingredients and thus appear as "0"								