

## 2014 San Francisco Reduced-Risk Pesticide List

(applicable to City-owned properties only)

Product Name	Type	EPA #/ SF code*	Ingredients	Pesticide Hazard Tier	Use Limitation Type	Use Limitations Other uses require an exemption (click here)
<b>GENERAL USE PESTICIDES</b>						
<b>Actinovate</b>	Fungicide	73314-1	<i>Streptomyces lydicus</i> WYEC 108	Least hazardous (Tier III)	<b>Least Limited</b>	
<b>Advion Ant Bait Arena (Dupont)</b>	Insecticide	352-664	Indoxacarb 0.1%	Least hazardous (Tier III)	<b>Least Limited</b>	
<b>Advion Ant Gel (Dupont)</b>	Insecticide	352-746	Indoxacarb 0.05%	Least hazardous (Tier III)	<b>Least Limited</b>	
<b>Advion Cockroach Bait Arena (Dupont)</b>	Insecticide	352-668	Indoxacarb 0.5%	Least hazardous (Tier III)	<b>Least Limited</b>	
<b>Advion Cockroach Gel Bait (Dupont)</b>	Insecticide	352-652	Indoxacarb 0.6%	Least hazardous (Tier III)	<b>Least Limited</b>	
<b>Agri-Fos Systemic Fungicide</b>	Fungicide	71962-1	Potassium phosphite 45.8%	Least hazardous (Tier III)	<b>Least Limited</b>	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.
<b>Aquamaster Herbicide</b>	Herbicide	524-343	Glyphosate, isopropylamine salt 53.8%	More hazardous (Tier II)	<b>More Limited</b>	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.
<b>Avenger</b>	Herbicide	82052-1	d-Limonene 60%	More hazardous (Tier II)	<b>More Limited</b>	Burndown herbicide to replace Greenmatch. Not for use near water.
<b>Azatin XL</b>	Insecticide	70051-27	Azadirachtin 3%	Most hazardous (Tier I)	<b>More Limited</b>	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.

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<b>Azatrol EC Insecticide</b>	Insecticide	2217-836	Azadirachtin (2328) 1.2%	Most hazardous (Tier I)	<b>More Limited</b>	For greenhouses and established plants for interiorscapes. Do not apply on flowering plants when bees are active.
<b><i>Bacillus thuringiensis</i> insecticides (excluding mosquito control)</b>	Insecticide	Various	<i>Bacillus thuringiensis</i> (various subsp.)	Least hazardous (Tier III)	<b>Least Limited</b>	
<b>BestYet Cedarcide</b>	Insecticide	exemptprod-009	Cedarwood oil, amorphous silica	Least hazardous (Tier III)	<b>Least Limited</b>	
<b>Bond Spreader-Sticker</b>	Adjuvant	34704-50033	Synthetic carboxylated latex 50%, primary aliphatic oxyalkylated alcohol 10%	Least hazardous (Tier III)	<b>Least Limited</b>	
<b>BotaniGard ES</b>	Insecticide	65626-8 [INACTIVE], 82074-1 [ACTIVE]	Beauveria bassiana strain GHA 11.3%	Least hazardous (Tier III)	<b>Least Limited</b>	Control of thrips on landscaped plants. Do not apply on flowering plants when bees are active. USE UP EXISTING STOCKS
<b>CMR Silicone Surfactant</b>	Adjuvant	1050775-50025 [INACTIVE]	Polymethyl-siloxane, nonionic	Least hazardous (Tier III)	<b>More Limited</b>	
<b>Competitor</b>	Adjuvant	2935-50173	Ethyl oleate	Least hazardous (Tier III)	<b>Least Limited</b>	
<b>Conserve SC Turf and Ornamental</b>	Insecticide	62719-291	Spinosad 11.6%	More hazardous (Tier II)	<b>Least Limited</b>	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.
<b>Critter Ridder</b>	Mammal repellent	50932-10	Oil of black pepper 0.48%	Least hazardous (Tier III)	<b>Least Limited</b>	
<b>Debug Turbo</b>	Nematicide	70310-5	Fats & glyceridic oils margosa 65.8%, azadirachtin 0.7%	More hazardous (Tier II)	<b>Least Limited</b>	
<b>Detour</b>	Mammal repellent	exemptprod-015	White pepper 3%, white mineral oil 87%, silica 10%	Least hazardous (Tier III)	<b>Least Limited</b>	

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<b>Eco Exempt/Essentria Jet Wasp and Hornet Killer</b>	Insecticide	exemptprod-007	2-phenethyl propionate 2%, rosemary oil 3%	Least hazardous (Tier III)	<b>Least Limited</b>	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.
<b>EcoPCO DX Dust Insecticide</b>	Insecticide	67425-16	Pyrethrins 0.4%, 2-Phenethyl Propionate 1%	More hazardous (Tier II)	<b>More Limited</b>	Only for use on rat mites, bedbugs, lice, and yellowjackets in walls when nonchemical techniques prove ineffective.
<b>Enstar II Insect Growth Regulator (Enstar 5E)</b>	Insecticide	2724-476	S-kinoprene 64.1%	More hazardous (Tier II)	<b>More Limited</b>	USE UP EXISTING STOCKS. For use only in nurseries and on roses.
<b>Essentria IC3</b>	Insecticide	exemptprod-013	Rosemary oil 10%, geraniol 5%, peppermint oil 2%, wintergreen oil, white mineral oil, vanillin, polyglyceryl oleate	Least hazardous (Tier III)	<b>Least Limited</b>	
<b>Garlon 4 Ultra</b>	Herbicide	62719-527	Triclopyr, butoxyethyl ester 60.45%	Most hazardous (Tier I)	<b>Most Limited: Must justify use</b>	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
<b>Gentrol Point Source Roach Control Device</b>	Insecticide	2724-469	Hydroprene 96%	Least hazardous (Tier III)	<b>Least Limited</b>	
<b>Habitat</b>	Herbicide	241-426	Imazapyr, isopropylamine salt, 28%	More hazardous (Tier II)	<b>More Limited</b>	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
<b>Intice Thiquid Ant Bait</b>	Insecticide	73079-7	Borax, 5%	Least hazardous (Tier III)	<b>Least Limited</b>	
<b>Marathon 1% Granular Greenhouse &amp; Nursery Insecticide</b>	Insecticide	3125-452-AA (INACTIVE) 432-1329 (ACTIVE)	Imidacloprid 1%	Most hazardous (Tier I)	<b>Most Limited: Must justify use</b>	Nursery use for control of white fly, not for use in propagation beds. Only effective on quick-growing plants. HIGH PRIORITY TO FIND ALTERNATIVE
<b>Maxforce FC Magnum Roach Killer Bait Gel</b>	Insecticide	432-1460	Fipronil 0.05%	More hazardous (Tier II)	<b>More Limited</b>	Not for use in outdoor areas with potential rain exposure

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<b>Maxforce FC Professional Insect Control Ant Bait Stations</b>	Insecticide	432-1256	Fipronil 0.01%	More hazardous (Tier II)	<b>More Limited</b>	Not for use in outdoor areas with potential rain exposure
<b>Maxforce FC Professional Insect Control Roach Bait Stations</b>	Insecticide	432-1257	Fipronil 0.05%	More hazardous (Tier II)	<b>More Limited</b>	Not for use in outdoor areas with potential rain exposure
<b>Maxforce FC Professional Insect Control Roach Killer Bait Gel</b>	Insecticide	432-1259	Fipronil 0.01%	More hazardous (Tier II)	<b>More Limited</b>	Not for use in outdoor areas with potential rain exposure
<b>Milestone</b>	Herbicide	62719-519	Aminopyralid, triisopropylamine salt (5928) 40.6%	More hazardous (Tier II)	<b>Most Limited: Must justify use</b>	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.
<b>M-pede Insecticide/Fungicide</b>	Insecticide	62719-515	Potash soap 49%	Least hazardous (Tier III)	<b>More Limited</b>	Nursery, specialty gardens, and Africanized Honey Bees.
<b>Niban Granular Bait (equivalent to Terro Multipurpose Insect Bait)</b>	Insecticide	64405-2-AA	Boric acid 5%	Least hazardous (Tier III)	<b>Least Limited</b>	Outdoor restricted to planted areas, prefer containers; indoor must be in containers or inaccessible to humans. USE UP EXISTING STOCKS
<b>Nufarm Polaris Herbicide</b>	Herbicide	228-534	Imazapyr, isopropylamine salt, 28%	More hazardous (Tier II)	<b>More Limited</b>	Preferred alternative to triclopyr for use on invasive weeds in natural areas, such as broom, Cotoneaster, or Arundograss.
<b>OhYeah!</b>	Insecticide	exemptprod-002	Sodium lauryl sulfate	Least hazardous (Tier III)	<b>Least Limited</b>	
<b>Orange Guard</b>	Insecticide	61887-1	D-limonene 5.8%	More hazardous (Tier II)	<b>More Limited</b>	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.
<b>Organocide</b>	Insecticide	exemptprod-010	Sesame oil 5%	Least hazardous (Tier III)	<b>Least Limited</b>	
<b>Oust XP Herbicide (DuPont)</b>	Herbicide	352-601	Sulfometuron-methyl 75%	More hazardous (Tier II)	<b>Most Limited: Must justify use</b>	For use only on airport operational areas subject to FAA requirements. HIGH PRIORITY TO FIND ALTERNATIVE

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<b>Pentrabark</b>	Adjuvant	83416-50001	Polyalkyleneoxide modified heptamethyltrisiloxane	Least hazardous (Tier III)	<b>More Limited</b>	For use with Agrifos only
<b>Prescription Treatment Brand Perma-Dust</b>	Insecticide	499-384	Boric acid 35%, petroleum distillates-hydrotreated light 10%, HFC-134A, 1, 1 difluoroethane	More hazardous (Tier II)	<b>More Limited</b>	Use in situations where adhesion of dust is important and non-aerosol boric acid products are ineffective.
<b>Prescription Treatment Brand Wasp-Freeze Wasp and Hornet Killer Formula 1</b>	Insecticide	499-362	Phenothrin 12%, d-trans allethrin .129%, CO2	Most hazardous (Tier I)	<b>More Limited</b>	Use only when a concern for public safety, and in situations where use of EcoExempt product is inadequate or unsafe.
<b>Roundup Promax Herbicide</b>	Herbicide	524-579	Glyphosate, isopropylamine salt 48.7%	More hazardous (Tier II)	<b>More Limited</b>	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.
<b>Shake-Away Coyote Urine Repellent Granules</b>	Mammal repellent	exemptprod-014	Coyote urine 5%, limestone 95%	Least hazardous (Tier III)	<b>Least Limited</b>	
<b>Sluggo Slug and Snail Bait</b>	Molluscicide	67702-3	Phosphoric acid, iron(3+) salt (1:1) 1%	Least hazardous (Tier III)	<b>Least Limited</b>	
<b>Spraytech Oil</b>	Insecticide	65328-50001	Soybean oil	More hazardous (Tier II)	<b>Least Limited</b>	
<b>Stalker herbicide</b>	Herbicide	241-398	Imazapyr, isopropylamine salt 28%	More hazardous (Tier II)	<b>More Limited</b>	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.
<b>Terro Ant Killer II, Terro Ant Killer II Liquid Ant Baits, Terro-PCO Liquid Ant Bait</b>	Insecticide	149-8	Sodium tetraborate decahydrate 5.4%	Least hazardous (Tier III)	<b>Least Limited</b>	
<b>Turflon Ester</b>	Herbicide	62719-258	Triclopyr, butoxyethyl ester 61.6%	Most hazardous (Tier I)	<b>Most Limited: Must justify use</b>	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 - Lake Merced, Golden Gate Park.

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<b>GOLF PRODUCTS</b>						
<b>3336 F Fungicide (Clearys)</b>	Fungicide	1001-69	Thiophanate-methyl 42.5%	Most hazardous (Tier I)	<b>Most Limited: Must justify use</b>	For use on Harding Park/Fleming golf courses only in preparation for tournament play. HIGH PRIORITY TO FIND ALTERNATIVE
<b>Fiesta</b>	Herbicide	67702-26	Iron HEDTA 26.52%	Most hazardous (Tier I)	<b>More Limited</b>	For use on golf greens for spot treatment.
<b>Fosphite Fungicide</b>	Fungicide	68573-2	Potassium phoshate	Least hazardous (Tier III)	<b>More Limited</b>	Only for use on golf courses.
<b>Heritage Fungicide</b>	Fungicide	100-1093	Azoxystrobin 50%	Most hazardous (Tier I)	<b>Most Limited: Must justify use</b>	To be used only on high profile sports greens.
<b>Lontrel Turf and Ornamental Herbicide</b>	Herbicide	62719-305	Clopyralid, 40.9%	More hazardous (Tier II)	<b>More Limited</b>	For use on Harding Park/Fleming golf courses only in preparation for tournament play
<b>Sapphire</b>	Herbicide	62719-547	Penoxsulam	More hazardous (Tier II)	<b>More Limited</b>	Only use on City-owned golf courses in preparation for major golf tournaments.
<b>Trimmit 2SC Plant Growth Regulator for Turfgrass</b>	Growth regulator	100-1014	Paclobutrazol 22.3%	More hazardous (Tier II)	<b>More Limited</b>	For use only on golf courses in preparation for tournament play.
<b>Triton Flo (Chipco)</b>	Fungicide	432-1487	Triticonazole, 30.1%	More hazardous (Tier II)	<b>More Limited</b>	For use on Harding Park/Fleming golf courses only in preparation for tournament play
<b>VECTOR CONTROL PRODUCTS</b>						
Agnique MMF-G	Mosquito control - other	53263-30	Poly(oxy-1,2-ethanediyl),alpha-isodecyl-omega-hydroxy-phosphate 32%	More hazardous (Tier II)	<b>Most Limited: Must justify use</b>	Use for late instar mosquito larvae and pupae, in combination with microbial products. DISCONTINUING - USE UP REMAINING STOCK
<b>BVA2 Mosquito Larvicide</b>	Mosquito control - other	70589-1	Highly refined petroleum distillate (mineral oil)	Most hazardous (Tier I)	<b>More Limited</b>	For use only at San Francisco International Airport properties (within San Mateo Mosquito Abatement District)

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<b>Contrac All-Weather Blox</b>	Rodenticide	12455-79	Bromadiolone 0.005%	Most hazardous (Tier I)	<b>Most Limited: Must justify use</b>	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.
<b>JT Eaton Bait Block Rodenticide with Peanut Butter Flavorizer</b>	Rodenticide	56-42	Diphacinone 0.005%	More hazardous (Tier II)	<b>More Limited</b>	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.
<b>Mosquito control - microbial</b>	Mosquito control - microbial	Various	<i>Bacillus thuringiensis</i> (Berliner or Israelensis) or <i>Bacillus sphaericus</i>	Least hazardous (Tier III)	<b>Least Limited</b>	Any microbial mosquito larvicide with active ingredients <i>Bacillus thuringiensis</i> (Berliner or Israelensis) or <i>Bacillus sphaericus</i> is categorized as Least limited.
<b>Mosquito control products - IGRs</b>	Mosquito control - IGRs	Various	S-Methoprene (5026)	Least hazardous (Tier III)	<b>More Limited</b>	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.
<b>Top Gun All Weather Bait Block Rodenticide</b>	Rodenticide	67517-66	Bromethalin 0.01%	Most hazardous (Tier I)	<b>Most Limited: Must justify use</b>	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.