

1 [Revised Reduced-Risk Pesticides List]

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3 **Resolution Adopting a Revised Reduced-Risk Pesticides List For 2011.**

4 WHEREAS, Chapter 3, Section 307(d) of the San Francisco Environment
5 Code allows the Commission on the Environment to exempt “reduced-risk”
6 pesticides from the ban imposed by the Ordinance upon a finding that the
7 “reduced-risk” pesticide is commonly used as part of an IPM strategy; and,

8 WHEREAS, The Department of the Environment has performed an
9 extensive evaluation of pesticide products that qualify as “reduced-risk”
10 pesticides in consultation with members of the public, scientists, and
11 departments and agencies of the City and County of San Francisco; and,

12 WHEREAS, The Department of the Environment has developed and
13 recommends the attached revised Integrated Pest Management Program
14 Reduced-Risk Pesticides List, hereby called the Approved List 2011, for adoption
15 by the Commission for the year 2011; and,

16 WHEREAS, The Approved List 2011 will be reviewed and updated on an
17 as-needed basis; now therefore, be it

18 RESOLVED, That the Commission on the Environment finds that the
19 pesticide products on the Approved List 2011 are “reduced-risk” pesticides
20 commonly used as part of an IPM strategy, and are therefore exempt from the
21 ban imposed by Sections 302 and 303 of the Environment Code.

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1 I hereby certify that this Resolution was adopted by the Commission on the
2 Environment at its meeting on January 25, 2011.

3 Monica Fish

4 Monica Fish, Commission Secretary

5 Vote: Approved, 6-0 AYES; 1 Absent

6 Ayes: Commissioners Tuchow, Gravanis, Elliott, Mok, Prakash and Wald

7 Noes: None

8 Absent: Commissioner King



2011 San Francisco Reduced-Risk Pesticide List for City-Owned Properties

SF Department of the Environment (SFE)

How to Use this List

The following list includes pesticide products approved for use under the SF Integrated Pest Management (IPM) Ordinance (Adopted 10/96, Chapter 3, SF Environmental Code).

This pesticide list should not be used in place of an IPM program. Pesticides should be the last resort, when all other tactics have failed (i.e., sanitation improvements, pest prevention, non-chemical management measures).

This list is for institutions, not for homes. Many pesticides on the list were added for specialized purposes not found in residential settings. To find out how homeowners can use few or no pesticides to manage common pest problems, visit: SFEnvironment.org/IPM.

City Dept. staff or contractors: Apply for exemption to use a pesticide that is:

- ✓ Not in the SF Reduced-Risk Pesticide List –OR–
- ✓ In the SF Reduced-Risk Pesticide List **but used different than described** in the *Pesticide Limitations* column.

The IPM Coordinator for your City Dept. must:

1. **Fill out this [Pesticide Exemption Request](#).** Allow at least 2 days for your request to be processed. SF Dept. of Environment will only grant exemptions in cases of:
 - a. Well-documented need for the pesticide and when all other alternatives have been tried or deemed impractical –OR–
 - b. For trial use of new reduced risk products
 - c. More questions? Contact Chris.Geiger@sfgov.org and call 415-355-3759.
2. **Justify your use of a pesticide at an annual public hearing, if you used a pesticide:**
 - a. That SF Dept. of Environment approved for exemption
 - b. That is higher risk and listed as *Most Limited Use* in the SF Reduced-Risk Pesticide List

For more info on *How SF's Reduced-Risk Pesticide List Was Developed*, visit: sfenvironment.org/ipmchecklist

Rodenticides: Site-Specific Limitations

Due to the concern over primary and secondary poisoning, the type of rodenticide and the manner in which it is applied will be determined by the general site characteristics.

Only use rodenticides in the SF Reduced-Risk Pesticide List, not explosive devices. To use other rodenticides, apply for an exemption.

DEFINITIONS:

- Landscaped area:** area under cultivation
- Natural area:** parklands (including any lightly managed grasslands, scrub or woodlands) with significant wildlife concern
- Primary poisoning:** Non-target animal eats poison directly
- Secondary poisoning:** Non-target animal eats poisoned target animal as prey
- Single-feed baits:** Baits with bromodialone & bromethalin active ingredients.

General Site Description	Allowed Use of Rodenticides in SF Pesticide List
Inside of sewers or sewage treatment facilities:	Baits must be secured either inside the sewer or inside a bait box. Single feeding baits acceptable. Monitoring with non-toxic baits encouraged.
Commercial enterprises (such as restaurants) on leased City lands	Trapping only; single-feed rodenticides allowed as a last resort only for public health & safety considerations.
Interior of structures with occupants (i.e. office space, recreation sites)	Trapping only.
Interior of non-enclosed structures (i.e. storage, stables, airport service areas) – not adjacent to natural areas.	Trapping preferred. Secure and anchored bait stations can be placed inside on a preventative basis. <i>No single-feed baits.</i>
Exterior of structures in urbanized areas (i.e. perimeter of offices)	Trapping preferred. Secure and anchored bait stations can be placed inside on a preventative basis. <i>No single-feed baits.</i>
Exterior of structures in natural areas	Multiple feeding baits may be used only as last resort in case of human health concern or structural integrity. Baits must be secured within bait boxes or buried in burrows. <i>No pellets or single-feed rodenticides.</i>
Landscape not adjacent to a natural area	Bait placed deep inside burrows, minimize use of pellets, mouse sized pellets only, must be buried deep in the burrow. <i>No single-feed baits.</i>
Natural area or landscape adjacent to a natural area.	Multiple feeding baits may be used only as last resort in case of human health concern or structural integrity. Baiting should be limited to sensitive sites such as campfire areas, or on preventing infestation of structures. Baits must be secured inside bait boxes or burrows. <i>No use of pellets or single feeding rodenticides.</i>

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Product Name	Type	EPA Reg. No.	Ingredients	Pesticide Hazard Tier	Use Limitation Type	Use Limitations	Amount Used - 2010 - LBS	Notes
20 Mule Team Tim-Bor Industrial	Insecticide	1624-39	disodium octaborate, tetrahydrate 98%	Most hazardous (Tier I)	More Limited	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. <i>Most hazardous (Tier I) status is due to male reproductive hazards, but exposure scenarios suggest minimal risk</i>	0.00	
3336 WP Turf & Ornamental Fungicide (Cleary's)	Fungicide	1001-63	thiophanate-methyl 50%	Most hazardous (Tier I)	Most Limited: justify use at public hearing	For use on golf courses only. HIGH PRIORITY TO FIND ALTERNATIVE	0.75	
Advion Ant Bait Arena (Dupont)	Insecticide	352-664	Indoxacarb 0.1%	Least hazardous (Tier III)	Least Limited		0.00	
Advion Ant Gel (Dupont)	Insecticide	352-746	Indoxacarb 0.05%	Least hazardous (Tier II)	Least Limited		0.00	
Advion Cockroach Bait Arena (Dupont)	Insecticide	352-668	Indoxacarb 0.5%	Least hazardous (Tier III)	Least Limited		0.00	
Advion Cockroach Gel Bait (Dupont)	Insecticide	352-652	Indoxacarb 0.6%	Least hazardous (Tier III)	Least Limited		0.00	
Agnique MMF-G	Mosquito control - other	53263-30	poly(oxy-1,2-ethanediyl),alpha-isodecyl-omega-hydroxy-phosphate 32%	More hazardous (Tier II)	More Limited	Use for late instar mosquito larvae and pupae, in combination with microbial products.	0.00	
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	0.00	
Andersons Golf Products Systemic Fungicide (equivalent to Proturf Systemic Fungicide)	Fungicide	538-88 (or 9198-187)	thiophanate-methyl 2.3%	Most hazardous (Tier I)	Most Limited: justify use at public hearing	Greens, highest profile athletic fields. HIGH PRIORITY TO FIND ALTERNATIVE	0.27	

*Citywide usage data provided for reference. Does not include public health treatments (contracted)
View this at SFApproved.org/Pest-Management to click webpages underlined above, and see the most updated list.

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Product Name	Type	EPA Reg. No.	Ingredients	Pesticide Hazard Tier	Use Limitation Type	Use Limitations	Amount Used 2010 LBS	Notes
Aquamaster Herbicide (equivalent to Rodeo)	Herbicide	524-343	glyphosate, isopropylamine salt 53.8%	More hazardous (Tier II)	More Limited	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. Note prohibition on use within buffer zone (generally 60 feet) around water bodies in red-legged frog habitat.	41.19	
Avid 0.15EC Miticide/Insecticide	Insecticide	100-896	abamectin 2%	Most hazardous (Tier I)	Most Limited	For nursery and greenhouse use only. HIGH PRIORITY TO FIND REPLACEMENT.	0.69	
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.	0.00	
CMR Silicone Surfactant	Adjuvant	1050775-50025	polymethylsiloxane, nontoxic	Least hazardous (Tier III)	More Limited		0.00	
Conserve SC Turf and Ornamental	Insecticide	62719-291	spinosad 11.6%	Least hazardous (Tier III)	Least Limited	For use as a last resort in greenhouses. If feasible, alternate with other products to avoid the development of resistance.	0.08	
Confrac All-Weather Blox	Rodenticide	12455-79	bromadiolone 0.005%	Most hazardous (Tier I)	Most Limited: justify use at public hearing	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.	47.50	
Dipel Pro DF	Insecticide	73049-39	Bacillus thuringiensis, Subsp. Kurstaki, Strain Abts-351 (5829) 54%	Least hazardous (Tier III)	Least Limited		0.82	

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Earth-Tone Horticultural Oil (equivalent to Concern For The Earth, For the Earth Pesticidal Spray Oil Dormant And Growing Season Insect Spray)	Insecticide	67702-4	canola oil 96%	Least hazardous (Tier III)	More Limited		0.00	
EcoExempt G	Insecticide	Exempt	eugenol (clove oil) 2.9%, thyme oil 0.6%, plant oils and other ingredients 96.5%	Least hazardous (Tier III)	Least Limited	Do not use in enclosed areas.	0.00	
Enstar II Insect Growth Regulator (Enstar 5E)	Insecticide	2724-476	S-kinoprene 64.1%	Least hazardous (Tier III)	Least Limited	Nurseries, roses.	0.22	
Genrol Point Source Roach Control Device	Insecticide	2724-469	Hydroprene 96%	Least hazardous (Tier III)	Least Limited		0.02	
Heritage Fungicide	Fungicide	100-1093	azoxystrobin 50%	Most hazardous (Tier I)	Most Limited:	Consider/emphasize use of compost tea for preventative; improve aeration and monitoring programs. To be used only as a spot treatment on high profile sports greens.	6.31	
Javelin WG Biological Insecticide	Insecticide	70051-66	Bacillus thuringiensis (berliner), subsp. kurstaki, strain sa-11 7.5%	Least hazardous (Tier III)	Least Limited		0.00	
JMS Stylet Oil or JMS Organic Stylet Oil	Insecticide	65564-1	petroleum distillates, refined 97.1%	More hazardous (Tier II)	Least Limited		28.13	

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Product Name	Type	EPA Reg. No.	Ingredients	Pesticide Hazard Tier	Use Limitation Type	Use Limitations	Amount Used - 2010 - LBS	Notes
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 in last page. 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.		
Kaligreen	Fungicide	70231-1 (INACTIVE) 11581-2 (ACTIVE)	potassium bicarbonate 82%	Least hazardous (Tier III)	Least Limited	Watch for phytotoxicity.	0.00	
Marathon 1% Granular Greenhouse & Nursery	Insecticide	3125-452-AA (INACTIVE) 432-1329 (ACTIVE)	imidacloprid 1%	Most hazardous (Tier I)	Most Limited: justify use at public hearing	Nursery use for control of white fly, not for use in propagation beds. Only effective on quick-growing plants. HIGH PRIORITY TO FIND ALTERNATIVE	0.06	
Maxforce FC Professional Insect Control Ant Bait Stations	Insecticide	432-1256	flupyriflupir 0.01%	More hazardous (Tier II)	Least Limited		0.06	
Milestone	Herbicide	62719-519	Aminopyralid, tri-sopropolanolamine salt (5928) 40.8%	Most hazardous (Tier I)	Most Limited: justify use at public hearing	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. Listed as Tier I due to persistence but toxicity & potential exposure are very low.	0.56	
Mosquito control - microbial	Mosquito control - microbial			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."	0.00	
M-pede Insecticide/Fungicide	Insecticide	62719-515	potash soap 49%	Least hazardous (Tier III)	More Limited	Nursery, specialty gardens, and Africanized Honey Bees.	0.00	
OhYeah!	Insecticide	Exempt	sodium lauryl sulfate	Least hazardous (Tier III)	More Limited		0.00	
Orange Guard	Insecticide	61887-1	d-limonene 5.8%	Most hazardous (Tier I)	More Limited	Minimize use in enclosed areas due to scent. Wear protective equipment. Potential aquatic hazard - do not apply directly to water.	0.00	

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Oust XP Herbicide (DuPont)	Herbicide	352-601	sulfometuron-methyl 75%	Most hazardous (Tier I)	Most Limited: Justify use at public hearing	For use only on airport operational areas subject to FAA requirements. HIGH PRIORITY TO FIND ALTERNATIVE	0.00	
Prescription Treatment Brand 381B Advance Liquid Ant Bait	Insecticide	499-491	borax 1.3%	Most hazardous (Tier I)	Least Limited	Tier I status is due to reproductive toxicity but exposure scenarios suggest minimal risk	0.03	
RootShield Granules, TurfShield Granules	Fungicide	68539-3	Trichoderma harzianum Rifai Strain K1-Ag2 (3977) 1.15%	Least hazardous (Tier III)	Least Limited		0.00	
Roundup Pro Herbicide	Herbicide	524-475	glyphosate, isopropylamine salt 41%	More hazardous (Tier II)	More Limited	Spot application of areas inaccessible or too dangerous for hand methods, right of ways, utility access, or fire prevention. Use 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.	240.59	
Roundup Promax	Herbicide	524-579	48.7% of glyphosate, isopropylamine salt	More hazardous (Tier II)	More Limited	Spot application of areas inaccessible or too dangerous for hand methods, right of ways, utility access, or fire prevention. Use 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.	94.16	
Safer Brand Ant & Crawling Insect Killer	Insecticide	59913-1	Diatomaceous earth 77.69%	Least hazardous (Tier III)	Least Limited		0.00	
Sat-T-Side	Insecticide	48813-1	paraffinic oil 80%	More hazardous (Tier II)	More Limited	Use up existing stock only. Try Spraytech first.	0.00	
Sluggo Slug and Snail Bait	Molluscicide	67702-3	Phosphoric acid, iron(3+) salt (1:1) 1%	Least hazardous (Tier III)	Least Limited		45.00	
Sonar A.S.	Herbicide	67690-4	fluricione 41.7%	Least hazardous (Tier III)	More Limited	Emergent plants in ponds, lakes, drainage canals. Only as a last resort when other mgmt. practices are ineffective.	0.00	

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Product Name	Type	EPA Reg. No.	Ingredients	Pesticide Hazard Tier	Use Limitation Type	Use Limitations	Amount Used - 2010 LBS	Notes
Spraytech Oil	Insecticide	65328-50001	soybean oil	Least hazardous (Tier II)	Least Limited	Consider using this instead of JMS Stylet Oil for aphids and other insects.	0.00	
Terro Ant Killer II, Liquid Ant Baits, Terro-PCO	Insecticide	149-8	sodium tetraborate decahydrate 5.4%	Most hazardous (Tier I)	Least Limited	<i>Tier I status is due to reproductive toxicity but exposure scenarios suggest minimal risk</i>	0.66	
Top Gun All Weather Bait Block Rodenticide	Rodenticide	67517-66	bromethalin 0.01%	More hazardous (Tier II)	Most Limited: justify use at public hearing	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.	0.00	
Victor Poison Free Wasp & Hornet Killer	Insecticide	Exempt	Mint Oil 8.0%, Sodium Lauryl Sulfate 1.0%, Inert Ingredients 91.0%, Water 88.5%, CO ₂ 2.5%	Least hazardous (Tier III)	Least Limited	Try this instead of PT Brand Wasp Freeze	0.00	
Zoecon Altosid Briquets	Mosquito control - IGRs	2724-375	S-Methoprene (5026) 8.62%	Most hazardous (Tier I)	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.	0.05	
Zoecon Altosid Pellets, Zoecon Altosid Pellets WSP	Mosquito control - IGRs	2724-448	S-Methoprene (5026) 4.25%	More hazardous (Tier II)	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.	0.00	
Zoecon Altosid XR Extended Residual Briquets	Mosquito control - IGRs	2724-421	S-Methoprene (5026) 2.1%	More hazardous (Tier II)	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.	0.00	
Zoecon Altosid XR-G	Mosquito control - IGRs	2724-451	S-Methoprene (5026) 1.5%	More hazardous (Tier II)	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.	0.00	

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PRODUCTS ADDED								
Competitor	Adjuvant	2935-50173	ethyl oleate	Least hazardous (Tier III)	Least Limited		0.00	Alternatives assessment conducted for Marin Municipal Water District determined that Competitor was lowest risk alternative adjuvant.
Greenmatch EX	Herbicide	Exempt	lemnigrass oil 50% other ingredients (corn oil, glyceryl esters, potassium oleate, lecithin)	Least hazardous (Tier III)	More Limited	Not for use in enclosed areas. Observe label precautions on PPE	3.75	Need a turn-down herbicide available as alternative to glyphosate. OMRI approved product.
Habitat	Herbicide	241-426	miazapyr isopropylamine salt 28%	More hazardous (Tier II)	More Limited	Preferred alternative to triolopyr for use on invasive weeds in natural areas, such as broom, <i>Cotoneaster</i> , or <i>Aranthograss</i>	3.58	Need alternatives to triolopyr, extensive screening by invasive <i>Spartina</i> project.
Mulfarm Polaris	Herbicide	228-534	flazapyr, isopropylamine salt 28%	More hazardous (Tier II)	More Limited	Preferred alternative to triolopyr for use on invasive weeds in natural areas, such as broom, <i>Cotoneaster</i> , or <i>Aranthograss</i>	0.00	Need alternatives to triolopyr, extensive screening by invasive <i>Spartina</i> project.
PRODUCTS REMOVED								
Andersons Golf Products K-D-G Weed Control (equivalent to Pro Turf K-D-G Weed Control)	Herbicide	8198-184	dicamba 0.7%	Most hazardous (Tier I)	Most Limited: justify use at public hearing	Spot application only for for Soliva setisilis and <i>Cotula mexicana</i> in golf greens when hand-weeding is not feasible. Not for use in Sharp, Rapid or area or endangered species areas. HIGH PRIORITY TO FIND ALTERNATIVE.	0.00	Old product
JT Eaton Apple Bait Block Rodenticide	Rodenticide	56-41	diphacinone 0.005%	More hazardous (Tier II)	More Limited	See Site-Specific Limitations in last page. For rat control only in situations with high public health concerns, where baiting is infeasible. In all cases, monitoring shall be used whenever feasible to minimize rodenticide use. HIGH PRIORITY TO FIND ALTERNATIVE.	0.00	No longer used.

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Rootone F Branit Rooting Hormone	Fungicide	264-489	Tricoum 0.04%, NAD 2%	Most Hazardous (Tier I)	Most Limited: justify use at public hearing	Nursery use only. Problem with mixing and storage due to fat. Consider gels, liquids, or Dipin Grow as alternatives. Use existing stock. May be removed from this list.	0.00	Now have non-fluorinated Dipin-N-Grow
Roundup ProDry Herbicide	Herbicide	524-805	glyphosate, ammonium salt 71.4%	More hazardous (Tier II)	More Limited	Same limitations as Roundup Pro.	19.32	No stocks remaining. Now using Roundup Pro and ProMax instead.
Victor Poison Free Flying Insect Killer	Insecticide	Exempt	Mint Oil 4.0%, Sodium Lauryl Sulfate 0.1%, Inert Ingredients 95.9%, Water 93.6%, CO ₂ 2.5%	Least Hazardous (Tier III)	Least Limited	Limit use indoors.	0.00	No longer on the market.
PRODUCTS CHANGED								
Azatin XL	Insecticide	70051-27	azadirachtin 3%	More hazardous (Tier II)	More Limited	Nurseries and established plants for intercroppes. Do not apply on flowering plants when bees are active.	0.00	Incorrect hazard tier listed on 2010 list. Should be Tier II (more hazardous) due to possible bee toxicity.
Azatrai EC Insecticide	Insecticide	22717-836	Azadirachtin (2328) 1.2%	More hazardous (Tier II)	More Limited	Nurseries and established plants for intercroppes. Do not apply on flowering plants when bees are active.	0.19	Added bee limitations as with Azatin.
Garlon 4	Herbicide	62719-40	triclopyr, butoxyethyl ester 61.6%, nonpetroleum-based methylated seed oils	Most hazardous (Tier I)	Most Limited: justify use at public hearing	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, and only with use of a respirator. HIGH PRIORITY TO FIND ALTERNATIVE	3.81	Added 'high profile or highly invasive' wording.

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Garton 4 Ultra	Herbicide	62713-627	trifluralin, butoxyethyl ester 60.45%	Most hazardous (Tier I)	Most Limited; justify use at public hearing	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, and only with use of a respirator. HIGH PRIORITY TO FIND ALTERNATIVE	4.60	Changed limitation language from "Use only for targeted treatments of invasive exotics via dabbing or injection. HIGH PRIORITY TO FIND ALTERNATIVE" due to specific situations where highly targeted "micro" spraying is needed, such as <i>Atractiaeca</i>
Marathon II Granular Greenhouse & Nursery	Insecticide	432-1369	imidacloprid 21.4%	Most hazardous (Tier II)	Most Limited	Nursery use only for control of mealybug, scale, and other insects. Only for use on fast-growing specimen plants for which Marathon 1% does not work in cases where biological control and IGRs have proven ineffective.	0.00	Changed from previous language: "Nursery use only for control of mealybug, scale, and other insects. Only for use on fast-growing specimen plants for which Marathon 1% work." Need to emphasize biological control and IGR options.
Maxforce FC Professional Insect Control Roach Bait Stations	Insecticide	432-1257	ipronilil 0.05%	More hazardous (Tier II)	Least Limited		0.06	Corrected hazard tier ranking to Tier II from Tier III in 2010
Maxforce FC Professional Insect Control Roach Killer Bait Gel	Insecticide	432-1259	ipronilil 0.01%	More hazardous (Tier II)	More Limited	Apply only in cracks, crevices and areas inaccessible to casual skin contact.	0.01	Added limitation language
Niban Granular Bait (equivalent to Terro Multipurpose Ant Bait)	Insecticide	64405-2-AA	boric acid 5%	Most hazardous (Tier I)	Least Limited	Outdoor restricted to planted areas, prefer containers, indoor must be in containers or inaccessible to humans. Tier I status is due to reproductive toxicity but exposure scenarios suggest minimal risk	1.50	Corrected hazard tier to Tier I

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2011 San Francisco Reduce Risk Pesticide List

Product Name	Type	EPA Reg. No.	Ingredients	Pesticide Hazard Tier	Use Limitation Type	Use Limitations	Amount Used - 2010 - LBS	Notes
Prescription Treatment Brand Avert Cockroach Bait Station, Formula 1	Insecticide	499-467	abamectin 0.05%	Most hazardous (Tier I)	More Limited	Phase out - use existing supplies. Tier I status is due to reproductive toxicity but exposure scenarios suggest minimal risk	0.00	Changed limitation type to "more limited" from "least limited" due to new data on abamectin.
Prescription Treatment Brand Avert Cockroach Gel Bait Formula 3	Insecticide	499-410	abamectin 0.05%	Most hazardous (Tier I)	More Limited	Phase out - use existing supplies. Tier I status is due to reproductive toxicity but exposure scenarios suggest minimal risk	0.72	Changed hazard tier ranking - incorrectly listed as Tier II in 2010.
Prescription Treatment Brand Wasp-Freeze Wasp and Hornet Killer Formula 1	Insecticide	499-362	phenothrin 12% of trans allethrin 129% CO2	More hazardous (Tier II)	More Limited	Use only when a concern for public safety.	31.46	Removed phrase from limitation language: "Consider Victor Poison Free Wasp & Hornet Killer as a first resort." This product is no longer available.
Sapphire	Herbicide	62719-547	Pennisulam	More hazardous (Tier II)	More Limited	Only use on City-owned golf courses in preparation for major golf tournaments.	0.00	Previous limitation language: "Only use on City-owned golf courses."
Turfion Ester	Herbicide	62719-258	trifluralin butoxyethyl ester 61.6%	Most hazardous (Tier I)	Most Limited: justify use at public hearing	Targeted treatment of turf; broadcast application requires exemption. 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.	39.00	Added "Lake Merced, Golden Gate Park" for clarity.
Zoecon Altsid Liquid Larvicide Mosquito Growth Regulator	Mosquito control - IGRs	2724-362	S-Methoprene (5028) 5%	More hazardous (Tier II)	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.	0.00	Removed alternate product name: Zoecon Altosid liquid Larvicide
Zoecon Gentrol IGR Concentrate	Insecticide	2724-351	hydroprene 9%	Least hazardous (Tier III)	Least Limited		0.00	Removed alternate product name: ZOECON 9010 IGR

*Citywide usage data provided for reference. Does not include public health treatments (contracted)
 View this at SFAApproved.org/Pest-Management to click webpages underlined above, and see the most updated list.