

## 2008 Reduced-Risk Pesticide List -Sorted by PRODUCT

**KEY**  
**Pesticide Types:** A=adjuvant, F=fungicide, H=herbicide, I= insecticide, M=molluscicide, P=plant hormone, V=vertebrate control, 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 to complete a hazard assessment, see narrative description  
**EPA Reg #:** US EPA registraton number, from Dept. of Pesticide Regulation databases. "OLD" = inactive or soon to be inactive registration #. First two groups of numbers (XXXX-XXX) identify the product.  
**NOTE:** Mosquito control products are listed separately at the bottom of the list

| Pesticide Type | Use Category | Hazard Tier | Product Name   | Active Ingredients                         | EPA Reg #                                 | Uses / Limitations   |
|----------------|--------------|-------------|--|--|---|--|
| F              | L*           | *           | 3336 WP Turf   | methyl thioallophanate 50%                 | 1001-63-AA                                | For use on golf courses only.  |
| F              | A            | ***         | Agri-Fos Systemic Fungicide  | potassium phosphite 45.8%                  | 71962- 1-AA                               | For use on high-value oaks ( <i>Quercus</i> spp.) susceptible to Sudden Oak Death  |
| W              | L            | **          | Aquamaster Herbicide (equivalent to Rodeo)   | glyphosate, isopropylamine salt 53.8%      | 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.          |
| I              | L            | **          | Avid 0.15EC Miticide/Insecticide   | abamectin 2%                               | 618-96-AA(INACTIVE)<br>100-896-ZA(ACTIVE) | Nursery use only.  |
| I              | L            | **          | Azatin XL Biological Insecticide   | azadirachtin 3%                            | 70051-27-AA-59807                         | Nurseries and established plants for interiorscapes.   |
| I              | A            | ***         | Azatrol EC   | Azadirachtin (2328) 1.2%                   | 2217-836                                  |  |
| I              | L            | ***         | BotaniGard ES  | <i>Beauveria bassiana</i> strain GHA 11.3% | 65626-8-ZA(INACTIVE)                      | Control of thrips on landscaped plants. Biological product but some concern over bee toxicity.   |
| A              | L            | ***         | CMR Silicone Surfactant  | polymethyl-siloxane, nonionic              | 1050775-50025-AA                          | Use other alternatives pending new review of siloxanes   |
| I              | A            | ***         | Concern From The Earth, For The Earth Pesticidal Spray Oil Dormant And Growing Season Insect Spray | canola oil 96%                             | 67702- 4-ZA- 50932                        | For use only in City-owned sewer lines or for commercial leasees on city property 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. In sewers, monitoring shall be used whenever feasible to minimize rodenticide use |
| I              | L            | *           | Conserve SC Turf and Ornamental  | spinosad 11.6%                             | 62719-291-AA                              | For use as a last resort in greenhouses. If feasible, alternate with other products to avoid the development of resistance.  |
| V              | L*           | *           | Contrac All-Weather Blox   | bromadiolone 0.005%                        | 12455-79-AA                               | For use only in City-owned sewer lines or for commercial leasees on city property 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. In sewers, monitoring shall be used whenever feasible to minimize rodenticide use |

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| I              | A            | ***         | Dipel Pro DF   | <i>Bacillus thuringiensis</i> , Subsp. Kurstaki, Strain Abts-351 (5829) 54%      | 73049- 39-ZA                                |  |
| I              | A            | ***         | EcoExempt G  | eugenol (clove oil) 2.9%, thyme oil 0.6%, plant oils and other ingredients 96.5% | Exempt from EPA Reg.                        |  |
| H              | L            | /           | EcoExempt HC   | eugenol (clove oil) 21.4%; 2-phenethyl propionate 21.4%                          | Exempt from EPA Reg.                        | Do not use in enclosed areas.  |
| I              | L            | ***         | Enstar II Insect Growth Regulator                                      | S-kinoprene 64.1%  | 55947-82-ZA-55947 (INACTIVE)                | Nurseries, roses.  |
| H              | L            | **          | Ezject Selective Injection Herbicide                                   | glyphosate, isopropylamine salt 83.5%  | 524-435-AA-524(INACTIVE)                    | Tree stump injection especially where resprouting is likely, prefer mechanical methods when possible such as stump grinding  |
| F              | L*           | *           | GARDEN TECH ROOTONE ROOTING HORMONE WITH FUNGICIDE                     | Thiram   | 264-499-AA-71004                            | Nursery use only. Problem with mixing and storage due to talc. Consider Dip'n Grow as alternative.   |
| H              | L            | **          | Garlon 4   | triclopyr, butoxyethyl ester 61.6%   | 62719-40-ZB                                 | Targeted treatment of invasive exotics in parks, natural areas, right of ways. OK for fuel reduction, pilot alternative strategies.                                  |
| I              | A            | ***         | Gentrol IGR Concentrate  | hydroprene 9%  | 2724-351-ZA                                 |  |
| F              | L*           | *           | Heritage Fungicide   | azoxystrobin 50%   | 100- 1093-AA                                | 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. |
| I              | A            | ***         | Javelin WG   | <i>Bacillus thuringiensis</i> (berliner), subsp. kurstaki, strain sa-11 7.5%     | 70051-66-AA (INACTIVE) 70051-66-ZA (ACTIVE) |  |
| F/I            | A            | **          | JMS Stylet Oil   | petroleum distillates, refined 97.1%   | 65564- 1-AA                                 | Use up existing stock only for Rec&Park and SFIA.  |
| V              | L            | **          | JT Eaton Answer for the Control of Pocket Gophers                      | diphacinone 0.005%   | 56-57-AA-56(INACTIVE); 56-57-ZA (ACTIVE)    | Damage to: dams, levies, athletic fields, active recreation areas, structures, high cultural value or landmark areas. Public Health concerns.                        |
| V              | L            | **          | JT Eaton Bait Block Rodenticide with Molasses/Peanut Butter Flavorizer | diphacinone 0.005%   | 56- 42-ZA                                   | Damage to: dams, levies, athletic fields, active recreation areas, structures, high cultural value or landmark areas. Public Health concerns.                        |
| V              | L            | **          | JT Eaton's Bait Blocks Rodenticide with Apple Flavorizer               | diphacinone 0.005%   | 56- 41-AA(INACTIVE); 56- 41-ZA (INACTIVE)   | Concern over 2nd poisoning, see site specific limits.  |
| F              | A            | ***         | Kaligreen  | potassium bicarbonate 82%  | 70231-1-AA                                  | Watch for phytotoxicity.   |

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| I              | L*           | *           | Marathon 1% Granular Greenhouse & Nursery  | imidacloprid 1%                                   | 3125-452-AA (INACTIVE)                           | Nursery use for control of white fly, not for use in propagation beds. Only effective on quick-growing plants.   |
| I              | L*           | *           | Marathon II Granular Greenhouse & Nursery  | imidacloprid 21.4%                                | 432-1369-AA- 59807                               | 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.  |
| I              | L            | **          | Maxforce FC Professional Insect Control Ant Bait Stations                                  | fipronil 0.01%                                    | 64248-10-ZA-64248(INACTIVE); 432-1256-AA(ACTIVE) | Minimize use through prevention, possible concern over active ingredient.  |
| I              | L            | **          | Maxforce FC Professional Insect Control Roach Bait Stations                                | fipronil 0.05%                                    | 64248-11-ZA (INACTIVE); 432-1257-AA (ACTIVE)     | Minimize use through prevention, possible concern over active ingredient.  |
| I              | L            | **          | Maxforce FC Professional Insect Control Roach Killer Bait Gel                              | fipronil 0.01%                                    | 64248-14-AA (INACTIVE); 432-1259-AA (ACTIVE)     | Minimize use through prevention, possible concern over active ingredient   |
| H              | L*           | *           | Milestone  | Aminopyralid, triisopropylamine salt (5928) 40.6% | 62719- 519-AA                                    | For invasive species in natural areas where other alternatives are ineffective, especially legumes and composites such as yellow star thistle and purple star thistle.   |
| I              | L            | **          | M-pede Insecticide/Fungicide   | potash soap 49%                                   | 53219-6-ZC (INACTIVE);                           | Nursery, specialty gardens, and Africanized Honey Bees.  |
| I              | L            | **          | Niban Granular Bait  | boric acid 5%                                     | 64405- 2-AA                                      | Outdoor restricted to planted areas, prefer containers; indoor must be in containers or inaccessible to humans   |
| I              | A            | ***         | OhYeah!  | sodium lauryl sulfate                             | Exempt from EPA Reg.                             |  |
| I              | L            | ***         | Orange Guard   | d-limonene 5.8%                                   | 61887-1-AA                                       | Contact insecticides should be minimized especially indoors.   |
| F/I            | A            | **          | Organic JMS Stylet Oil   | Mineral Oil (401) 97.1%                           | 65564- 1-ZA                                      | Use up existing stock only for Rec&Park and SFIA.  |
| H              | L*           | **          | Oust XP Herbicide by DuPont  | sulfometuron-methyl                               | 352-601-AA                                       | For use only on airport operational areas subject to FAA requirements.   |
| I              | A            | **          | Prescription Treatment Brand Advance Liquid Ant Bait                                       | borax 1.3%  | 56-72-AA-499 (INACTIVE); 499-491-AA (ACTIVE)     |  |
| I              | A            | **          | Prescription Treatment Brand Avert Cockroach Bait Station, Formula                         | abamectin 0.05%                                   | 499-467-AA                                       |  |
| I              | A            | **          | Prescription Treatment Brand Avert Cockroach Gel Bait Formula 3                            | abamectin 0.05%                                   | 499-410-AA                                       |  |
| H              | L*           | *           | ProTurf K-O-G Weed Control (INACTIVE); Andersons Golf Products K-O-G Weed Control (ACTIVE) | dicamba 0.7%                                      | 538-112-AA-538 (INACTIVE); 9198-184-AA (ACTIVE)  | Spot application on greens only when handweeding 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. |

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| F              | L            | *           | Proturf Systemic Fungicide (INACTIVE)<br>OR Andersons Golf Products Systemic Fungicide (ACTIVE) | thiophanate-methyl   | 538-88-ZB-538 (INACTIVE) OR 538-88-AA-9198 (ACTIVE) | Greens, highest profile athletic fields.   |
| I              | L            | **          | PT Brand Wasp-Freeze Wasp and Hornet Killer Formula 1   | phenothrin 12%, d-trans allethrin .129%, CO2                   | 499-362-ZA  | Use only when a concern for public safety. Consider Victor Poison Free Wasp & Hornet Killer as a first resort.   |
| I              | A            | ***         | Roach Terminal  | oxypurinol 1%, xanthine 1%                                     | 1001-73-AA  | Consider using this first before trying other roach products.  |
| F              | A            | ***         | RootShield  | <i>Trichoderma harzianum</i> Rifai Strain Krl-Ag2 (3977) 1.15% | 68539-3-ZB  |  |
| 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.  |
| H              | L            | **          | Roundup ProDry  | glyphosate   | 524-505-AA  | same limitations as Roundup Pro  |
| I              | L            | **          | Saf-T-Side FOR GROVE TREES  | paraffinic oil   | 48813-1-AA  | Use up existing stock only. Try Spraytech first.   |
| M              | A            | ***         | Sluggo Slug and Snail Bait  | iron phosphate   | 67702- 3-AA- 11656                                  |  |
| 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.  |
| A              | A            | ***         | Spraytech Oil   | soybean oil  | 65328-50001-AA                                      | Consider using this instead of JMS Stylet Oil for aphids and other insects.  |
| I              | L            | **          | Terro Ant Killer II Liquid Ant Baits  | sodium tetraborate   | 149-8-ZB  |  |
| I              | L            | *           | Tim-bor Industrial  | disodium octaborate 98%  | 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.  |
| V              | L*           | **          | Top Gun All Weather Bait Block Rodenticide  | bromethalin 0.01%  | 67517- 66-ZA- 56                                    | For use only in City-owned sewer lines or for commercial leasees on city property 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. In sewers, monitoring shall be used whenever feasible to minimize rodenticide use |
| H              | L            | **          | Turflon Ester   | triclopyr  | 62719-258-AA  | Targeted treatment of turf; broadcast application requires exemption   |

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| F              | A            | ***         | TurfShield                               | <i>Trichoderma harzianum</i> Rifai Strain Krl-Ag2 (3977) 1.15%  | 68539-3-ZC (INACTIVE)                          |  |
| I              | A            | ***         | Victor Poison Free Flying Insect Killer  | Mint Oil 4.0%, Sodium Lauryl Sulfate 0.1%, Inert Ingredients 95.9%, Water 93.4%, CO <sup>2</sup> 2.5% | 47629-30003-AA (INACTIVE); UPC #0072868136030  | Limit use indoors.                       |
| I              | A            | ***         | Victor Poison Free Wasp & Hornet Killer  | Mint Oil 8.0%, Sodium Lauryl Sulfate 1.0%, Inert Ingredients 91.0%, Water 88.5%, CO <sup>2</sup> 2.5% | UPC #0072868136047                             | Try this instead of PT Brand Wasp Freeze |
|                |              |             |  |   |  |  |
| Z              | A            | ***         | <b>Mosquito control - microbial</b>      |   |  |  |
|                |              |             | Aquabac 200G                             | <i>Bacillus thuringiensis</i> (Berliner), Subsp. <i>Israelensis</i> , Serotype H-14 2.86%             | 62637-3-ZA                                     |  |
|                |              |             | Vectobac 12as Biological Larvicide       | <i>Bacillus thuringiensis</i> , Subsp. <i>Israelensis</i> , Strain AM 65-52 (5841) 11.61%             | 73049-38-AA                                    |  |
|                |              |             | Vectobac-G Biological Mosquito Larvicide | <i>Bacillus thuringiensis</i> , Subsp. <i>Israelensis</i> , Strain AM 65-52 (5841) 2.8%               | 275-50-AA-275 (INACTIVE), 73049-10-AA (ACTIVE) |  |
|                |              |             | Vectolex WDG Biological Larvicide        | <i>Bacillus thuringiensis</i> , Subsp. <i>Israelensis</i> , Strain Am 65-52 (5841) 2.8%               | 73049-57-AA                                    |  |
|                |              |             | Vectolex G Biological Mosquito Larvicide | <i>Bacillus sphaericus</i> Serotype H-5A5B, Strain 2362 (2409) 7.5%                                   | 275-77-AA-275 (INACTIVE), 73049-20-AA (ACTIVE) |  |
|                |              |             | Mosquito Dunks                           | <i>Bacillus thuringiensis</i>   | 6218-47-ZB                                     |  |
|                |              |             | Vectolex WSP Biological Larvicide        | <i>Bacillus sphaericus</i> 7%   | 73049- 20-ZA                                   |  |

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| Z              | L            | **          | <b>Mosquito control - Insect Growth Regulators</b>        |  |   | Not for use in estuarine environments, except for San Mateo Mosquito Abatement District applications at airport and Sharp Park. For City catchment basins, microbial products are preferred when feasible.  |
|                |              |             | Altosid Briquets by Zoecon                                | S-Methoprene (5026) 8.62%  | 2724-375-ZA                                     |   |
|                |              |             | Zoecon Altosid Liquid Larvicide Mosquito Growth Regulator | S-Methoprene (5026) 5%   | 2724- 392-Za                                    |   |
|                |              |             | Zoecon Altosid Pellets                                    | S-Methoprene (5026) 4.25%  | 2724- 448-ZA                                    |   |
|                |              |             | Zoecon Altosid XR Extended Residual Briquets              | S-Methoprene (5026) 2.1%   | 2724- 421-ZA                                    |   |
|                |              |             | Zoecon Altosid XR-G                                       | S-Methoprene (5026) 1.5%   | 2724- 451-ZA                                    |   |
|                |              |             | <b>Mosquito control - Other</b>                           |  |   |   |
| Z              | L            | **          | Agnique MMF   | poly(oxy-1,2-ethanediyl),alpha-isodecyl-omega-hydroxy-phosphate 99.99% | 2302-14-AA (INACTIVE);<br>53263- 30-AA (ACTIVE) | Mosquito larvicide for standing water, human health concerns, especially where spreading a distance along the surface is not critical   |
| Z              | L            | **          | Golden Bear Mosquito Larvicide GB-1111                    | Aliphatic Petroleum Hydrocarbon  | 8329- 72-AA                                     | Apply as a mosquito larvicide 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. |