

2016 Proposed Landscape Allowed Pesticides

Applied and monitored by licensed professional applicators

Active Ingredient	Material	Signal Word	EPA Reg #	Use	Groundwater List	Prop 65	EPA Carcinogenicity	Criteria for Use & Limitations
azadirachtin	Azatrol EC	Caution	2217-836	insecticide	No	No	Not Listed	Neem based product for control of indoor and outdoor pests; acts as a repellent, antifeeding, and interference with molting. <b>OMRI</b> -certified.
Bacillus subtilis	Companion	Caution	71065-3	Liquid biological fungicide	No	No	No	This is a biological product that would be used to improve health and vigor of turfgrass at the golf course. It would be used on a regular basis to reduce the need for more toxic approaches to disease control
Bacillus thuringiensis	Dipel Pro DF	Caution	73049-39	biological insecticide	No	No	Not Listed	<b>OMRI</b> - this product will be, primarily, for use on golf course and sports turf to control sod web worms. These grubs reduce the safety and quality of the playing surface. Grubs also attract crows and skunks which in turn tear up the turf while looking for tasty morsels.
Clethodim	Envoy Plus	Caution	59639-132	Herbicide	No	Not Likely to be Carcinogenic to Humans	Not Listed	For use in areas where Goatgrass has been difficult to eradicate.
d-limonene 60%	Avenger AG	Caution	82052-4	Herbicide	No	No	Not Listed	Non-selected, post-emergent burndown herbicide used to control weeds, grasses, and broadleaves. This product replaces Green Match. <b>OMRI</b> certified.
ethyl oleate	Competitor	Caution	CA 2935-50173	surfactant	No	No	Not Listed	Modified vegetable oil as a surfactant - This is basically a non-chemical product, and is not regulated by the EPA.
Fluazifop-P-butyl	Fusilade II	Caution	100-1084	Herbicide-For control of grass weeds	No	Not Likely to be Carcinogenic to Humans	Not Listed	This product has been used effectively to reduce Bermuda grass in landscapes where high value plantings were being inundated. May be of use in areas where Goatgrass has been difficult to eradicate.
iron phosphate SF, EW, OW	Sluggo	Caution	67702-3	molluscicide	No	No	Not Listed	Snail and slug bait for landscape - <b>OMRI</b>
lecithin, alcohol ethoxylate	Liberate	Caution	CA 34704-50030-AA	surfactant	No	No	Not Listed	Soy based surfactant; Use with Aquamaster and other materials needing a surfactant - Organic
mint oil, sodium lauryl sulfate, SF, EW	Victor Wasp & Hornet Killer	Caution	N/A	insecticide	No	No	Not Listed	Emergency wasp nest destruction. - Organic - has variable success.
phosphorous acid, SF	Agri-fos	Caution	71962-1	fungicide-Sudden Oak Death	No	No	Not Listed	Sudden Oak Death (SOD) treatment. To only be used on high value trees in high risk areas that pose a threat if failure occurs. Not for use on wild land trees.
phosphorous acid	Reliant	Caution	83416-1	fungicide-Sudden Oak Death	No	No	Not Listed	Similar fungicide as Agri-fos but manufactured by a different company
polyethylene glycol, SF	Pentra-bark	Caution	83416-50001	surfactant-used only for Sudden Oak Death	No	No	Not Listed	Surfactant for Agri-fos, used in combination for SOD treatment. To only be used on high value trees in high risk areas that pose a threat if failure occurs. Not for use on wild land trees.

unsulfonated residue of mineral oil	Tri Tek	Caution	48813-1	Insecticide	No	No	Not Listed	OMRI-certified. Used to control mite and insect pests in the egg stages, including spider mites, armored scale, soft scale, mealy bugs, psyllids, whiteflies, and aphids.
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**Proposed Landscape Special Use Products** Applied and monitored by licensed professional applicators

Active Ingredient	Material	Signal Word	EPA Reg #	Use	Groundwater List	Prop 65	EPA Carcinogenicity	Criteria for Use & Limitations
ammoniated soap of fatty acids	Finalsan	Warning	67702-8-87865	Herbicide	No	No	Not Listed	OMRI listed. Non-selective foliar burndown applied for weed, grass, algae and moss. A potential alternative to glyphosate, particularly in hardscapes. Needs warmer temps for effectiveness. Potential to cause ocular injury to applicators.
Caprylic acid, capric acid	Suppress EC	Warning	51517	Herbicide	No	No	Not Listed	OMRI listed. Non-selective foliar burndown applied for grasses and broadleaf weeds. Better availability and less costly than Finalsan. Potential to cause ocular injury to applicators.
Dinotefuran	Safari 20 SG	Caution	33657-16-59639	Insecticide-foliar and systemic insect control in ornamental plants	No	Not Likely to be Carcinogenic to Humans	Not Listed	For use on insect populations when natural predators, OMRI or neem oil based products have not been successful.
Imazapyr	Habitat	Caution	241-426-A	herbicide (specifically for invasive grasses and woody plants)	Probable	No	Evidence of non-carcinogenicity	Needed as part of the Bay area wide Spartina project-- imazapyr applied as spot treatment at low tide in a salt marsh or mudflat environment with twice daily tidal flushing is irrelevant to the groundwater concerns. Also for use in cut stump applications, injection, and dabbing for invasive grass and woody species ( Tree of Heaven, Mayten trees, and Lepidium).
indaziflam	Specticle FLO	No signal word	432-1518	Herbicide	No	No	Not Listed	A Reduced-risk pre-emergent herbicide for the control of annual grasses, sedges, and broadleaf weeds. Less toxic alternative to Barricade.
potassium Salts of Fatty Acids, Ethyl Alcohol, SF, OW	Safer Soap	Warning	42697-59	insecticide	No	No	Not Listed	Civic Center Atrium and certain landscape plants; concentrate form <b>OMRI</b>
trans allethrin phenothrin, SF, EW	Wasp Freeze	Caution	499-362	insecticide	No	No	EU Endocrine Disruptor	Emergency wasp nest destruction for spray treatment of in ground or aerial wasp nest posing significant hazard to public. Four day pre-notice does not apply
triclopyr, SF	Garlon 4 Ultra	Caution	62719-527	woody broadleaf systemic herbicide	Possible	No	Group 'D' not classified as carcinogenic	Woody weeds, very limited use when glyphosate is not effective. Treat exotic invasive species via dabbing or injection - keep out of waterways.

# Proposed Pesticide Product List

(use only approved with exemption process)

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azoxystrobin	Heritage	Caution	100-1093	fungicide	No	No	Not Listed	A fungicide for the control of anthracnose, brown patch, Fusarium patch, gray snow mold, and Pythium blight at McInnis GC.
chlorantraniliprole	Acelepryn G	No signal word	100-1500	insecticide	No	No	Not Listed	Systemic control of white grubs and other turfgrass beetles in turf and ornamentals.
glyphosate SF	Roundup Custom	Caution	524-343	herbicide systemic, landscape & aquatic weeds	No	No	Not Listed	Restricted to four Critical Use areas: 1) critical habitats to protect endangered plants and native species; 2) traffic medians such as Sir Francis Drake Blvd; 3) fire fuel breaks; and 4) local agriculture such as treating barbed goatgrass to prevent encroachment into organic farms.
Glyphosate	Rodeo	Caution	62719-324	herbicide, systemic	No	No	Not Listed	A non-Monsanto glyphosate product used with the same restrictions as Roundup Custom. Must mix with surfactant such as Competitor
polyoxin D zinc salt	Affirm WDG	Caution	68173-3-1001	Fungicide	No	No	Not Listed	fungicide used in controlling or suppressing certain diseases in turf, and warm season grasses at McInnis golf courses.
prodiamine	Barricade (various)	Caution	100-834	pre-emergent herbicide	No	Not listed	US-EPA Possible carcinogen	High Traffic Medians that pose significant hazard to employees (i.e. SFD Blvd.) Will be benchmarked with site plan.
propiconazole	Banner Maxx II	Caution	100-1326	broad spectrum & systemic fungicide, turf and ornamentals	No	Not listed	US-EPA Possible carcinogen	A systemic fungicide for disease management on the golf course. It is to be used as part of a comprehensive turf management program that includes aeration, proper fertilization and irrigation best practices, while transitioning to a more focused IPM program.
pyrethrin and piperonyl butoxide	Drione	Caution	432-992	insecticide	No	No	US-EPA Possible carcinogen	Emergency wasp nest destruction. For treatment of wasp nest posing significant hazard to public. Very limited use; when WaspFreeze is ineffective.
triclopyr	Turflon Ester	Caution	62719-566	Herbicide	Groundwater concerns	No	Not Listed	Herbicide-turf area weeds. Very limited use for turf renovation. Field must be closed to public use during application and renovation.
iron HEDTA	Fiesta	Caution	67702-26-87865	herbicide, turf weed killer	No	No	Not Listed	Iron HEDTA is a natural selective herbicide. It is not OMRI listed and not listed as organic. This product is intended as an alternative to glyphosate for use on turf on golf courses and in parks to control weeds using ground equipment. It has not proven very effective when used under an exemption, but it will be further evaluated on younger, more susceptible weeds in the coming year. According to the EPA, iron HEDTA will not cause adverse effects to humans and other non-target organisms when used according to label directions.
neem tree extract SF, OW	Neem oil	Caution	70051-2	Botanical insecticide and fungicide	No	No	Not Listed	Civic Center Atrium and certain landscape plants; concentrate form OMRI

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Flutolanil	ProStar	Caution	432-1477	fungicide, turf & ornamentals	Potential	No	Evidence of Non-carcinogenicity for humans	A systemic fungicide for disease management on the golf course. It is to be used as part of a comprehensive turf management program that includes aeration, proper fertilization and irrigation best practices, while transitioning to a more focused IPM program
imidacloprid, SF	Imicide	Caution	7946-16	Insecticide, systemic injectable	Possible	No	Evidence of Non-carcinogenicity	Where Neem oil has been ineffective; last resort for control of whitefly, mealybug etc. in areas where public access is restricted during application. Injectable form for use in Civic Center Atrium-ground water contamination potential very limited; less than 3 oz used in 2008
imidacloprid, SF	Merit 75 WP	Caution	3125-421	insecticide, systemic soil drench	Possible	No	Evidenc of Non-carcinogenicity	Where Neem oil has been ineffective; last resort for control of whitefly, mealybug etc. in areas where public access is restricted during application. Injectable form for use in Civic Center Atrium-ground water contamination poential very limited; less than 3 ozs used in 2008
isoxaben	Gallery (various)	Caution	62719-145	pre-emergent herbicide	Possible	Not listed	US-EPA Possible carcinogen	High Traffic Medians that pose significant hazard to employees (i.e. SFD Blvd.) Will be benchmarked with site plan.
permethrin	Astro	Caution	279-3141	insecticide, beetles associated with Sudden Oak Death	Not likely (affinity to soil)	Not listed	US-EPA Possible carcinogen, EU Endocrine Disrupto	SOD treatment. High value trees in high risk areas that pose a threat if failure occurs. Not for use on wild land trees.

Rows highlighted in green are proposed additions. Rows highlighted in yellow are proposed deletions

SF = Active ingredient/products on San Francisco's list

OW = on Our Water Our World List

EW = Active ingrediant/products on the Eco-Wise list