





















East Bay Regional Park Staff FY13 and FY14 Pesticide Used Toxicity

Product	A.I./s.g.	Highly Toxic	Human Acute Toxin	Carcinogen	Human Reprod/ Dev Toxin	Endocrine Disruptor	Ground-water contaminant
Surflan A.S. (70506-44-AA)	40.4% Oryzalin s.g. = 1.2362	High 	Caution	Yes (CA Prop 65) 	?	Suspected (EU List) 	Potential
Roundup Promax Herbicide (524-579-AA)	48.7% Glyphosate, Potassium Salt s.g. = 1.3599	High 	Caution	Probable Human, WHO 	?	?	Potential
Roundup Pro Herbicide (524-475-ZA)	41% Glyphosate, Isopropyl-amine salt s.g. = 1.1703	High 	Caution	Probable Human, WHO 	?	?	Potential
Garlon 4 Ultra (62719-527-AA)	60.45% Triclopyr Butoxyethyl Ester s.g. = 1.1762	High 	Caution	Unclassifiable (U.S. EPA)	?	?	Potential
Pathfinder Specialty Herbicide (62719-176-AA)	16.7% Triclopyr, Butoxyethyl Ester s.g. = 1.041	High 	Caution	Unclassifiable (U.S. EPA)	?	?	Potential
Gas Cartridge (56228-2-AA)	53% Sodium Nitrate s.g. = 1	High non-target species; forms CO 	Warning	Unclassifiable (U.S. EPA, inadequate data)	?	?	?
	28% Carbon s.g. = 1			?	?	?	?
Hasten (2935-50160-AA)	(Adjuvants) s.g. = 0.91	N/A	Caution	N/A	N/A	N/A	N/A








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Transline (62719-259-AA)	40.9% Clopyralid, Monoethanolamine Salt s.g. = 1.161	long half life; GW	Caution	Not Likely	?	?	Potential
Target Pro-Spreader Activator (1050775-50022-AA)	(Adjuvants) s.g. = 0.9625	N/A	Caution	N/A	N/A	N/A	N/A

Diphacinone grain 0.005% (10965-50001-AA)	.005% Diphacinone Inactive Jan 1988 (solid)	No	Caution	?	?	?	?
Diphacinone grain 0.005% (10965-50001-ZA)	.005% Diphacinone Active Apr 1989 (solid)	High wildlife, dogs 	Caution	?	?	?	?
Polaris (228-534-AA)	28.7% Imazapyr, Isopropylamine Salt s.g. = 1.0562	No	long half - life; GW 	Not Likely	?	?	Potential
Liberate (34704-50030-AA)	Adjuvant s.g. = 0.977	N/A	Warning	N/A	N/A	N/A	N/A
Mon-65005 Herbicide (524-475-AA)	41% Glyphosate, Isopropylamine salt s.g. = 1.1703	High 	Caution	Probable Human, WHO 	?	?	Potential
RoundUp Custom (524-343)	53.8% Glyphosate, Isopropylamine Salt s.g. = 1.205	High 	Caution	Probable Human, WHO 	?	?	Potential
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Dimension Ultra (62719-445)	40% Dithiopyr (solid)	long half- life; GW; dev 	Caution	Not Likely	label: dev/rep risk	?	Potential
Milestone (62719-537)	40.6% Aminopyralid, Triisopropanolami ne Salt s.g. = 1.1402	long half- life; GW 	Caution	Not Likely	?	?	Potential
Bee Bopper (7754-44)	0.2% Tetramethrin s.g. = 0.81	High 	Caution	Possible (U.S. EPA)	?	EU, Colborn list	?
	0.125% Phenothrin s.g. = 0.81			Not Likely	?	EU, Colborn list	?
Competitor (2935-50173)	Adjuvant s.g. = 0.9013	N/A	Caution	N/A	N/A	N/A	N/A







Pak 27 (68660-9-67690) Algaecide - best option?	85% Sodium Carbonate Peroxyhydrate (solid)	High for applicator 	Danger 	?	?	?	?
Stylet (65564-1)	97.1% Petroleum Distillates, Refined s.g. = 0.87	Not Listed; non-target species	Caution	Unclassifiable (U.S. EPA)	?	?	?
Garlon 3A (62719-37 ?)	44.4% Triclopyr, Triethylamine salt s.g. = 1.135	High 	Danger 	Unclassifiable (U.S. EPA)	?	?	Potential
Pathfinder II (62719-176-ZA)	13.6% Triclopyr, Butoxyethyl Ester s.g. = 0.919	High 	Caution	Unclassifiable (U.S. EPA)	?	?	Potential





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Roundup Promax Herbicide (524-579-AA)	48.7% Glyphosate, Potassium Salt s.g. = 1.3599	High 	Caution	Probable Human, WHO 	?	?	Potential
Surflan A.S. (70506-44-AA)	40.4% Oryzalin s.g. = 1.2362	High 	Caution	Yes (CA Prop 65) 	?	Yes (EU List) 	Potential
Milestone (62719-537)	40.6% Aminopyralid, Triisopropanolamine Salt s.g. = 1.1402	long half-life; GW 	Caution	Not Likely	?	?	Potential
Sonarone (67690-45) reg in 2008 for aquatic weeds	5% Fluridone (solid)	studies show hormone disruption	Caution	Not Likely	?	?	?
Hasten (2935-50160-AA)	(Adjuvants) s.g. = 0.91	N/A	Caution	N/A	N/A	N/A	N/A
Competitor (2935-50173)	Adjuvant s.g. = 0.9013	N/A	Caution	N/A	N/A	N/A	N/A
Sonar PR herbicide (67690-12) reg in 2008	5% Fluridone (solid)	studies show hormone disruption	Caution	Not Likely	?	?	?





Diphacinone grain 0.005% (10965-50001-ZA)	.005% Diphacinone (solid)	High 	Caution	?	?	?	?
Vanquish (100-884)	56.8% Diglycolamine Salt of 3,6-Dichloro-O- Anisic Acid s.g. = 1.25	High 	Caution	Not Likely	Yes (U.S. TRI) 	?	Potential
Aluminum Phosphide (70506-13)	60% Aluminum Phosphide (solid)	High 	Danger 	?	?	?	?

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Capstone (62719-572)	16.22% Triclopyr, Triethylamine Salt s.g. = 1.0202	not listed	Caution	Unclassifi- able (U.S. EPA)	?	?	Potential
	2.22% Aminopyralid, Triisopropanola mine Salt s.g. = 1.0202			Not Likely	?	?	?
Rodeo (62719-324)	53.8% Glyphosate, Isopropylamine salt s.g. = 1.2362	High 	Caution	Probable Human, WHO 	?	?	Potential
Pak 27 (68660-9-67690) best option?	85% Sodium Carbonate Peroxyhydrate (solid)	High for applicator 	Danger 	?	?	?	?
Garlon 4 Ultra (62719-527-AA)	60.45% Triclopyr Butoxyethyl Ester s.g. = 1.1762	High 	Caution	Unclasi- fiable (U.S. EPA)	?	?	Potential
Telar (352-522??)	75% Chlorsulfuron (Solid)	High 	Caution	Not Likely	Yes (Prop 65 & U.S. TRI) 	?	Potential

Garlon 3A (62719-37)	44.4% Triclopyr, Triethylamine salt s.g. = 1.15	High 	Danger 	Unclassifiable (U.S. EPA)	?	?	Potential
In-Place Deposition (2935-50169)	Adjuvant s.g. = 0.8797	N/A	Caution	N/A	N/A	N/A	N/A
Clarity (7969-137)	58.1% Diglycolamine Salt of 3,6-Dichloro-O- Anisic Acid s.g. = 1.25	High 	Caution	Not Likely	Yes (U.S. TRI) 	?	Potential

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Target Pro-Spreader Activator (1050775-50022-AA)	(Adjuvants) s.g. = 0.9625	N/A	Caution	N/A	N/A	N/A	N/A
Kleenup Pro Herbicide (228-366)***	41% Glyphosate, Isopropylamine Salt s.g. = 1.1606	High 	Caution	Probable Human, WHO 	?	?	Potential
Pathfinder II (62719-176-ZA)	13.6% Triclopyr, Butoxyethyl Ester s.g. = 0.919	High 	Caution	Unclassifiable (U.S. EPA)	?	?	Potential
Activator 90 (36208-50014-AA)	(Adjuvants) s.g. = 1.04	N/A	Caution	N/A	N/A	N/A	N/A
Syl-Tac (2935-50167-AA)	(Adjuvants) s.g. = 0.933	N/A	Caution	N/A	N/A	N/A	N/A
MSO (1051226-50005-AA)	(Adjuvants) s.g. = 0.8881	N/A	Caution	N/A	N/A	N/A	N/A



High Toxicity

***Abbreviations used for air contaminants:**

HAP Hazardous Air Pollutant, USEPA
TAC Toxic Air Contaminant, CA

****Abbreviations of the species listed in Pesticide Injunctions:**









AW Alameda whipsnake
BCB Bay checkerspot butterfly

CCR	California clapper rail
CFS	California freshwater shrimp
CTS	California tiger salamander
CRLF	California red legged frog
DS	Delta smelt
Salmon	Salmon and Steelhead
SFGS	San Francisco garter snake
TG	Tidewater goby
VELB	Valley elderberry longhorn beetle
SJKF	San Joaquin kit fox
SMHH	Salt marsh harvest mouse

**List of Databases
Used for Toxicity**








Profiling:







<u>Product MSDS</u>	<u>CDPR</u>	<u>US EPA</u>	<u>CAL/EPA</u>	<u>NIH</u>	<u>National Toxicology Prog</u>
half-lives	Acute toxic TRI confirming half-lives product to reg # rep/dev		prop 65 cancer	cancer	Repro/dev half-lives cancer

Air Contaminant*	Fed. Or CA Restrict	Injunction Restricted**	Aerobic Soil Half life (days)	Location of trmt
Not Listed	Not Listed	Yes (CRLF, CTS) 	63	
Not Listed	Not Listed	Yes (CRLF) 	96	
Not Listed	Not Listed	Yes (CRLF) 	120	
HAP 	Not Listed	Yes (CRLF, Salmon) 	13	
HAP 	Not Listed	Yes (CRLF, Salmon) 	13	
Not Listed	Not Listed	Yes (AW, SFGS, SJKF) 	n/a	
Not Listed		Not Listed	n/a	
N/A	Not Listed	N/A	no data available	
Air Contaminating	Fed. Or CA Restrict	Injunction Restricted	Aerobic/ Anaerobic/Hydrolysis Soil Half life (days)	Location of trmt
Not Listed	Not Listed	Not Listed	30	
N/A	Not Listed	N/A	no data available	











* Legend for abbreviation






	Pesticides u
	pesticides u
	pesticides u

Not Listed	Not Listed	Yes (AW, CTS, DS, SJKF, SMHM) 	5	
Not Listed	Yes 	Yes (AW, CTS, DS, SJKF, SMHM) 	5	
Not Listed	Not Listed	Yes (CRLF) 	507/30/30	
N/A	Not Listed	N/A	no data available	
Not Listed	Not Listed	Yes (CRLF) 	96/22/35	
Not Listed	Not Listed	Yes (CRLF) 	96/22/35	
Air Contaminant	Fed. Or CA Restrict	Injunction Restricted	Aerobic Soil Half life (days)	Location of trmt
Not Listed	Not Listed	Not Listed	871/21,700	
Not Listed	Not Listed	Not Listed	444/207,000	
Not Listed	Not Listed	Yes (BCB, CCR, CFS, CTS, SFGS, DS, TG, VELB) 	3	
Not Listed			1	
N/A	Not Listed	N/A	no data available	

Not Listed	Not Listed	Not Listed	1	
Not Listed	Not Listed	Not Listed	65	
Parent in eval.	Not Listed	Yes (CRLF, Salmon) 	13	
HAP 	Not Listed	Yes (CRLF, Salmon) 	13/27/7	
Air Contaminant	Fed. Or CA Restrict	Injunction Restricted	Aerobic Soil Half life (days)	Location of trmt
Not Listed	Not Listed	Yes (CRLF) 	96	
Not Listed	Not Listed	Yes (CRLF, CTS) 	63	
Not Listed	Not Listed	Not Listed	444/207,000	
Not Listed	Not Listed	Not Listed	21	
N/A	Not Listed	N/A	no data available	
N/A	Not Listed	N/A	no data available	
Not Listed	Yes 	Not Listed	21	

	Pesticides u
	pesticides u
	pesticides u

Not Listed	Yes 	Yes (AW, CTS, DS, SJKF, SMHM) 	5	
Not Listed	Yes 	Not Listed	10/88/30	
HAP and TAC 	Yes 	Yes (AW, CTS, SFGS, SJKF) 	0.2	
Air Contaminant	Fed. Or CA Restrict	Injunction Restricted	Aerobic Soil Half life (days)	Location of trmt
Parent in eval.	no	Yes (CRLF, Salmon) 	12.75	
not listed	no	Not Listed	103	
Not Listed	Not Listed	Yes (CRLF) 	96/22/35	
Not Listed	Not Listed	Not Listed	1	
HAP 	Not Listed	Yes (CRLF, Salmon) 	13/27/7	
Not Listed	Not Listed	Not Listed	28/162	

Parent in eval	Not Listed	Yes (CRLF, Salmon) 	13/1600	
N/A	Not Listed	N/A	no data available	
Not Listed	Yes 	Not Listed	10/88/30	
Air Contaminant	Fed. Or CA Restrict	Injunction Restricted	Aerobic Soil Half life (days)	Location of trmt
N/A	Not Listed	N/A	no data available	
Not Listed	Not Listed	Yes (CRLF) 	96/22/35	
HAP 	Not Listed	Yes (CRLF, Salmon) 	13/27/7	
N/A	Not Listed	N/A	no data available	
N/A	Not Listed	N/A	no data available	
N/A	Not Listed	N/A	no data available	

gram

WHO IARC
cancer

EU, Endocrine Disruptors List
hormone disruptors

Colborn Endocrine List
hormone disruptors

ns at bottom

used in both FY 13 and FY 14

used in FY 13 only

used in FY 14 only

Used in both FY 13 and FY 14

Used in FY 13 only

Used in FY 14 only

