

**Appendix A**  
**Table 5 – Physical and Toxicological Properties**  
**A. Organic Regulated Substances**

<b>[Regulated Substance] REGULATED SUBSTANCE</b>	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d) <sup>-1</sup>		RfCi (mg/m <sup>3</sup> )		IUR (µg/m <sup>3</sup> ) <sup>-1</sup>		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference <sup>1</sup>	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr <sup>-1</sup> )
ACENAPHTHENE	83-32-9	0.06	I							4900	X	3.8	1,5,6	17220	20833		279	1.24
ACENAPHTHYLENE	208-96-8	0.06	S							4500	X	16.1	5,6,7	16493	19776		280	2.11
ACEPHATE	30560-19-1	[0.004] 0.0012	[I] O	0.0087	I					3		818000	6				340	
ACETALDEHYDE	75-07-0					0.009	I	0.0000022	I	4.1	X	1000000	1	[13100] 13010	[15100] 14945	X	20	
ACETONE	67-64-1	0.9	I			31	D			0.31	X	1000000	1	[13100] 13007	[15000] 14942	X	56	18.07
ACETONITRILE	75-05-8					0.06	I			0.5	X	1000000	1	[13100] 13020	[15000] 14958	X	82	4.50
ACETOPHENONE	98-86-2	0.1	I							170		5500	1			X	203	
ACETYLAMINO-FLUORENE, 2- (2AAF)	53-96-3			3.8	C			0.0013	C	1600		10.13	7				303	0.69
ACROLEIN	107-02-8	0.0005	I			0.00002	I			0.56	X	208000	1,2,4	[13100] 13012	[15100] 14948	X	53	4.50
ACRYLAMIDE	79-06-1	0.002	I	0.5	I	0.006	I	0.0001	I	25	X	2151000	4	[13000] 12981	[15000] 14906		193	
ACRYLIC ACID	79-10-7	0.5	I			0.001	I			29	X	1000000	2	[13000] 12978	[14900] 14902	X	141	1.39
ACRYLONITRILE	107-13-1	0.04	D	0.54	I	0.002	I	0.000068	I	11	X	73500	1	[13100] 13004	[15100] 14939	X	77	5.50
ALACHLOR	15972-60-8	0.01	I	0.056	C					110		140	2				378	
ALDICARB	116-06-3	0.001	I							22		6000	2				287	0.40
ALDICARB SULFONE	1646-88-4	0.001	I							10		8000	5				317	
ALDICARB SULFOXIDE	1646-87-3	0.001	M							0.22		330000	5				307	
ALDRIN	309-00-2	0.00003	I	17	I			0.0049	I	48000		0.02	4,5,6				330	0.22
ALLYL ALCOHOL	107-18-6	0.005	I			0.0001	X			3.2	X	1000000	2	[13100] 13003	[15000] 14937	X	97	18.07
AMETRYN	834-12-8	0.009	I							389		185	5				345	
AMINOBIHENYL, 4-	92-67-1			21	C			0.006	C	110		1200	5				302	18.07
AMITROLE	61-82-5			0.94	C			0.00027	C	120		280000	4				258	0.69
AMMONIA	7664-41-7	[0.97] 0.85	H			[0.1] 0.5	I			3	X	310000	2,5,7	[13100] 13098	[15000] 15059	X	-33	
AMMONIUM SULFAMATE	7773-06-0	0.2	I							3		2160000	10				603	
ANILINE	62-53-3	0.007	P	0.0057	I	0.001	I	0.0000016	C	190	X	33800	1	[13000] 12959	[14900] 14876	X	184	
ANTHRACENE	120-12-7	0.3	I							21000	X	0.066	1,5,6,7,8,9	30838	44562		340	0.28
ATRAZINE	1912-24-9	0.035	I	0.23	C					130		70	2,4,5				313	
AZINPHOS-METHYL (GUTHION)	86-50-0	[0.003] 0.0015	[D] O			0.01	D			407.4		31.5	1, 2				421	
BAYGON (PROPOXUR)	114-26-1	0.004	I							31		2000	2,4,5				decomp.	4.50
BENOMYL	17804-35-2	0.05	I	0.0024	O					1,900		2	5				520	
BENTAZON	25057-89-0	0.03	I							13		500	2				415	

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BENZENE	71-43-2	0.004	I	0.055	I	0.03	I	0.0000078	I	58	X	1780.5	1,2,3,4	[13100] 13053	15000	X	81	0.35
BENZIDINE	92-87-5	0.003	I	230	I			0.067	I	530,000		520	1,2,4				400	15.81
BENZO[A]ANTHRACENE	56-55-3			0.7	X			0.00011	C	350000		0.011	1,5,6				438	0.19
BENZO[A]PYRENE	50-32-8	<b>0.0003</b>	<b>I</b>	<b>[7.3] 1</b>	<b>I</b>	<b>0.000002</b>	<b>I</b>	<b>[0.0011]</b> <b>0.0006</b>	<b>[C]I</b>	910000		0.0038	1,5,6				495	0.24
BENZO[B]FLUORANTHENE	205-99-2			1.2	C			0.00011	C	550000		0.0012	5,6,7				357	0.21
BENZO[GHI]PERYLENE	191-24-2	0.06	S							2800000		0.00026	1,5,6				500	0.19
BENZO[K]FLUORANTHENE	207-08-9			1.2	C			0.00011	C	4400000		0.00055	5,6,7				480	0.06
BENZOIC ACID	65-85-0	4	I							32	<b>X</b>	2700	2,3,4,5	<b>12985</b>	<b>14913</b>		249	
BENZOTRICHLORIDE	98-07-7			13	I					920	<b>X</b>	53	1,5,13	<b>13494</b>	<b>15606</b>	X	221	121413.60
BENZYL ALCOHOL	100-51-6	0.1	P							100		40000	1,2,3			X	205	
BENZYL CHLORIDE	100-44-7	0.002	P	0.17	I	0.001	P	0.000049	C	190	X	493	1	[13000] 12940	[15000] 14846	X	179	20.90
BETA PROPIOLACTONE	57-57-8			14	C			0.004	C	4	X	370000	2	[13100] 13008	[15000] 14937	X	162	0.01
BHC, ALPHA	319-84-6	0.008	D	6.3	I			0.0018	I	1800		1.7	4,5,6,7				288	0.94
BHC, BETA-	319-85-7			1.8	I			0.00053	I	2300		0.1	6				304	1.02
BHC, GAMMA (LINDANE)	58-89-9	0.0003	I	1.1	C			0.00031	C	1400		7.3	4,5,6				323	1.05
BIPHENYL, 1,1-	92-52-4	0.05	I	0.008	<b>[X]</b> <b>I</b>	0.0004	X			1,700	<b>X</b>	7.2	1	<b>14027</b>	<b>16325</b>		255	18.07
BIS(2-CHLORO ETHOXY)METHANE	111-91-1	0.003	P							61		100500	4,6,7,9,10,11			X	218	
BIS(2-CHLOROETHYL)ETHER	111-44-4			1.1	I			0.00033	I	76	X	10200	1,4,5	[13000] 12942	[14900] 14849	X	179	0.69
BIS(2-CHLORO-ISOPROPYL)ETHER	108-60-1	0.04	I	0.07	H			0.00001	H	62	X	1700	5	[13000] 12947	[14900] 14856	X	189	0.69
BIS(CHLOROMETHYL)ETHER	542-88-1			220	I			0.062	I	16	X	22000	6	[13100] 12992	[15100] 14922	X	105	57270.57
BIS[2-ETHYLHEXYL] PHTHALATE	117-81-7	0.02	I	0.014	I			0.0000024	C	87000		0.285	4,5,6			X	384	0.65
BISPHENOL A	80-05-7	0.05	I							1,500		120	4				220	0.69
BROMACIL	314-40-9	0.1	M							58		815	2				421	
<b>BROMOBENZENE</b>	<b>108-86-1</b>	<b>0.008</b>	<b>I</b>			<b>0.06</b>	<b>I</b>			<b>268</b>	<b>X</b>	<b>445</b>	<b>1.2</b>	<b>12954</b>	<b>14866</b>	<b>X</b>	<b>156.1</b>	
BROMOCHLOROMETHANE	74-97-5	0.01	M			0.04	X			27	X	16700	4	[13100] 13007	[15000] 14942	X	68	
BROMODICHLOROMETHANE	75-27-4	0.02	I	0.062	I			0.000037	C	93	X	4500	6	[13100] 12984	[15000] 14910	X	87	
BROMOMETHANE	74-83-9	0.0014	I			0.005	I			170	X	17500	2	[13100] 13039	[15000] 14981	X	4	6.66
BROMOXYNIL	1689-84-5	<b>[0.02] 0.015</b>	<b>[I]</b> <b>O</b>	<b>0.103</b>	<b>O</b>					300		130	2				329	

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		[I] O	[I] O	[I] O	[I] O	[I] O	[I] O											
BROMOXYNIL OCTANOATE	1689-99-2	[0.02] 0.015	[I] O	0.103	O					18,000		0.08	12				414	5.75
BUTADIENE, 1,3-	106-99-0			[3.4] 0.6	C	0.002	I	0.00003	I	120	X	735	1	[13200] 13115	[15000] 15041	X	-4.5	4.50
BUTYL ALCOHOL, N-	71-36-3	0.1	I							3.2	X	74000	1	[13000] 12998	[14900] 14930	X	118	4.68
BUTYLATE	2008-41-5	0.05	I							540	X	45	2	[13200] 13430	[15200] 15519	X	138	
BUTYLBENZENE, N-	104-51-8	0.05	P							2,500	X	15	1,6,7	[13100] 12943	[15100] 14851	X	183	
BUTYLBENZENE, SEC-	135-98-8	0.1	X							890	X	17	1,6,7	[13100] 12983	[15000] 14910	X	174	
BUTYLBENZENE, TERT-	98-06-6	0.1	X							680	X	30	1,6,7	[13100] 12979	[15000] 14904	X	169	
BUTYLBENZYL PHTHALATE	85-68-7	0.2	I	0.0019	P					34000		2.69	4,5,6			X	370	1.39
CAPTAN	133-06-2	0.13	I	0.0023	C			0.00000066	C	200		0.5	4				259	589.39
CARBARYL	63-25-2	0.1	I							190		120	2,4,5				315	4.22
CARBAZOLE	86-74-8			0.02	H					2,500		1.2	1,5,6				355	
CARBOFURAN	1563-66-2	0.005	I							43		700	2				311	
CARBON DISULFIDE	75-15-0	0.1	I			0.7	I			300	X	2100	1,2,3	[13100] 13022	[15100] 14961	X	46	
CARBON TETRACHLORIDE	56-23-5	0.004	I	0.07	I	0.1	I	0.000006	I	160	X	795	1,2,3	[13100] 13117	[15000] 15083	X	77	0.07
CARBOXIN	5234-68-4	0.1	I							260		170	5,6,8				407	
CHLORAMBEN	133-90-4	0.015	I							20		700	2				210	
CHLORDANE	57-74-9	0.0005	I	0.35	I	0.0007	I	0.0001	I	98000		0.056	4,5,7				351	0.09
CHLORO-1,1-DIFLUOROETHANE, 1-	75-68-3					50	I			22	X	1400	4	[13100] 13117	[15000] 15041	X	-9	
CHLORO-1-PROPENE, 3- (ALLYL CHLORIDE)	107-05-1			0.021	C	0.001	I	0.000006	C	48	X	3300	1,3,5,7,10	[13100] 13142	[15000] 15116	X	45	18.07
CHLOROACETALDEHYDE	107-20-0			[0.3] 0.27	X					3.2	X	1000000	9	[13000] 13004	[14900] 14938	X	85	
CHLOROACETOPHENONE, 2-	532-27-4					0.00003	I			76		1100	3				247	4.50
CHLOROANILINE, P-	106-47-8	0.004	I	0.2	P					460	X	3900	1	13139	15127		232	
CHLOROBENZENE	108-90-7	0.02	I			0.05	P			200	X	490	3	[13100] 12992	[15000] 14922	X	132	0.84
CHLOROBENZILATE	510-15-6	0.02	I	0.11	C			0.000031	C	2600		13	4				415	3.60
CHLOROBUTANE, 1-	109-69-3	0.04	P							580	X	680	1,2,3,4	[13200] 13007	[15000] 149421	X	79	
CHLORODIBROMOMETHANE	124-48-1	0.02	I	0.084	I			[0.000027]	[C]	83	X	4200	4,6,7,9	[13100] 12973	[15100] 14895	X	116	1.39
CHLORODIFLUOROMETHANE	75-45-6					50	I			59	X	2899	4	[13200] 13141	[15000] 15113	X	-41	

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		Vol from Surface Soil	Vol from SubSurface Soil															
CHLOROETHANE	75-00-3	[0.4]	[N]	[0.0029]	[N]	10	I			42	X	5700	1	[13100] 13101	[15000] 15038	X	12	4.50
CHLOROFORM	67-66-3	0.01	I	[0.019] 0.031	C	[0.098] 0.3	[D] C	0.000023	I	56	X	8000	1,2,3	[13100] 13044	[15000] 14988	X	61	0.01
CHLORONAPHTHALENE, 2- CHLORONITROBENZENE, P-	91-58-7 100-00-5	0.08 [0.001] 0.0007	I P							8500 480	X X	11.7 220	1 1	19021 13190	23532 15196		256 242	
CHLOROPHENOL, 2-	95-57-8	0.005	I							400	X	24000	1,3,4	[12900] 13053	[14900] 15009	X	175	
CHLOROPRENE	126-99-8	0.02	H			0.02	I	0.0003	I	50	X	1736	9	[13100] 13116	[15000] 15075	X	59	0.69
CHLOROPROPANE, 2-	75-29-6					[0.1] 0.1001	H			260	X	3100	1,3,5	[13200] 13055	[15000] 15002	X	47	
CHLOROTHALONIL	1897-45-6	0.015	I	0.0031	C			0.0000089	C	980		0.6	2				350	
CHLOROTOLUENE, O-	95-49-8	0.02	I							760	X	422	1,4,5	[13100] 12941	[15000] 14848	X	159	
CHLOROTOLUENE, P-	106-43-4	0.02	X							375	X	106	12	[13000] 12961	[14900] 14877	X	162	
CHLORPYRIFOS	2921-88-2	0.001	D							4600		1.12	2,4,6,7				377	
CHLORSULFURON	64902-72-3	[0.05] 0.02	[I] O							11		192	2,5,6,8,9				531	
CHLORTHAL-DIMETHYL (DACTHAL) (DCPA)	1861-32-1	0.01	I							6,500		0.5	2,5,7				360	1.37
CHRYSENE	218-01-9			0.12	C			0.000011	C	490000		0.0019	1				448	0.13
CRESOL(S)	1319-77-3	0.1	D			0.06	C			25	X	20000	2	[13000] 12976	[14900] 14899	X	139	5.16
CRESOL, DINITRO-O-, 4,6-	534-52-1	[0.0001] 0.00008	[P] X							257	X	150	4	13025	14970		312	6.02
CRESOL, O- (METHYLPHENOL, 2-)	95-48-7	0.05	I							22	X	2500	3,5,6	[13000] 12974	[14900] 14896		191	18.07
CRESOL, M (METHYLPHENOL, 3-)	108-39-4	0.05	I							35		2500	2			X	202	5.16
CRESOL, P (METHYLPHENOL, 4-)	106-44-5	0.005	H							49		22000	6				202	9.03
CRESOL, P-CHLORO-M-	59-50-7	0.1	X							780		3846	2				235	
CROTONALDEHYDE	4170-30-3	0.001	S	1.9	S					5.6	X	180000	3	[13000] 12998	[14900] 14931	X	104	18.07
CROTONALDEHYDE, TRANS-	123-73-9	0.001	P	1.9	H					6.1	X	156000	1	[13100] 13006	[15100] 14940	X	104	18.07
CUMENE (ISOPROPYL BENZENE)	98-82-8	0.1	I			0.4	I			2800	X	50	1,5,6	[13100] 12940	[15100] 14846	X	152	15.81
CYANAZINE	21725-46-2	0.002	[M] H	0.84	H					199		171	2,5				369	
CYCLOHEXANE	110-82-7					6	I			479	X	55	1,2,4,5,6	[13100] 13140	[15100] 15112	X	81	

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CYCLOHEXANONE	108-94-1	5	I			0.7	P			66	X	36500	1,2,4,5	[13000] 12949	[14900] 14858	X	157	
CYFLUTHRIN	68359-37-5	0.025	I							130,000		0.001	2				448	
CYROMAZINE	66215-27-8	[0.0075] 0.015	[I] O							1,200		11000	12				222	
DDD, 4,4'-	72-54-8	0.003	X	0.24	I			0.000069	C	44000		0.16	5,6,7				350	0.02
DDE, 4,4'-	72-55-9	0.0003	X	0.34	I			0.000097	C	87000		0.04	5				348	0.02
DDT, 4,4'-	50-29-3	0.0005	I	0.34	I			0.000097	I	240000		0.0055	5,6,7				260	0.02
DI(2-ETHYLHEXYL)ADIPATE	103-23-1	0.6	I	0.0012	I					47,000,000		200	5			X	214	4.50
DIALLATE	2303-16-4			0.061	H					190		40	2,4,6,8			X	328	1.39
DIAMINOTOLUENE, 2,4-	95-80-7			4	C			0.0011	C	36		7470	4				292	0.69
DIAZINON	333-41-5	0.0007	D							500		50	2,4,6,8			X	306	
DIBENZO[A,H]ANTHRACENE	53-70-3			4.1	C			0.0012	C	1800000		0.0006	1,5,6				524	0.13
DIBENZOFURAN	132-64-9	0.001	X							10233	X	4.48	1,6,7,9	23885	31445		287	7.23
DIBROMO-3-CHLOROPROPANE, 1,2-	96-12-8	0.0002	P	0.8	P	0.0002	I	0.006	P	140	X	1000	4	[13000] 12946	[15000] 14856	X	196	0.69
DIBROMOBENZENE, 1,4-	106-37-6	0.01	I							1,600		20	1				220	
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	106-93-4	0.009	I	2	I	0.009	I	0.0006	I	54	X	4150	1,2,3,5	[13100] 12972	[15100] 14893	X	131	2.11
DIBROMOMETHANE	74-95-3	0.01	H			0.004	X			110	X	11400	1	[13100] 12948	[15100] 14858	X	96	4.50
DIBUTYL PHTHALATE, N-	84-74-2	0.1	I							1600		400	1,2,3			X	340	11.00
DICAMBA	1918-00-9	0.03	I							0.27		5600	4,5,6,8,10				329	
DICHLOROACETIC ACID	76-43-6	0.004	I	0.05	I					8.1	X	1000000	1	[12900] 12994	[14900] 14924	X	194	
DICHLORO-2-BUTENE, 1,4-	764-41-0							0.0042	P	180	X	850	9	[13100] 12943	[15000] 14851	X	156	
DICHLORO-2-BUTENE, TRANS-1,4-	110-57-6							0.0042	[S]P	215	X	850	9	[12900] 12940	[14800] 14847	X	155	
DICHLOROBENZENE, 1,2-	95-50-1	0.09	I			0.2	H			350	X	147	1,4,5,6,7	[13100] 12946	[15100] 14855	X	180	0.69
DICHLOROBENZENE, 1,3-	541-73-1	0.09	M							360	X	106	1	[13100] 12942	[15100] 14849	X	173	0.69
DICHLOROBENZENE, P-	106-46-7	0.07	D	0.0054	C	0.8	I	0.000011	C	510	X	82.9	1	[12900] 12943	[14900] 14850		174	0.69
DICHLOROBENZIDINE, 3,3'-	91-94-1			0.45	I			0.00034	C	22000		3.11	4,5,6				368	0.69
DICHLORODIFLUOROMETHANE (FREON 12)	75-71-8	0.2	I			0.1	X			360	X	280	1	[13200] 13115	[15000] 15041	X	-30	0.69
DICHLOROETHANE, 1,1-	75-34-3	0.2	P	0.0057	C	0.5	H	0.0000016	C	52	X	5000	2	[13100] 13051	[15000] 14998	X	57	0.16
DICHLOROETHANE, 1,2-	107-06-2	0.006	X	0.091	I	0.007	P	0.000026	I	38	X	8412	1,2,3,4	[13100] 13010	[15000] 14945	X	83	0.07

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[Regulated Substance] REGULATED SUBSTANCE	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d) <sup>-1</sup>		RfCi (mg/m <sup>3</sup> )		IUR (µg/m <sup>3</sup> ) <sup>-1</sup>		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference <sup>1</sup>	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr <sup>-1</sup> )
DICHLOROETHYLENE, 1,1-	75-35-4	0.05	I			0.2	I			65	X	2500	1,4,5	[13100] 13145	[15000] 15119	X	32	0.19
DICHLOROETHYLENE, CIS-1,2-	156-59-2	0.002	I							49	X	3500	1	[13100] 13037	[15000] 14979	X	60	0.01
DICHLOROETHYLENE, TRANS-1,2-	156-60-5	0.02	I			[0.06]	[P]			47	X	6300	1	[13100] 13053	15000	X	48	0.01
DICHLOROMETHANE (METHYLENE CHLORIDE)	75-09-2	0.006	I	0.002	I	0.6	I	0.00000001	I	16	X	20000	1,2,3	[13100] 13071	[15000] 15023	X	40	4.50
DICHLOROPHENOL, 2,4-	120-83-2	0.003	I							160		4500	1				210	5.88
DICHLOROPHOXYACETIC ACID, 2,4- (2,4-D)	94-75-7	0.01	I							59		677	4,5,6,7,10				215	1.39
DICHLOROPROPANE, 1,2-	78-87-5	[0.09] 0.04	[D] P	[0.036] 0.037	[C] P	0.004	I	[0.00001] 0.0037	[C]P	47	X	2700	1,3,4	[13100] 13016	[15000] 14954	X	96	0.10
DICHLOROPROPENE, 1,3-	542-75-6	0.03	I	0.1	I	0.02	I	0.000004	I	27	X	2700	6	[13100] 13038	[15000] 14981	X	108	22.38
DICHLOROPROPIONIC ACID, 2,2- (DALAPON)	75-99-0	0.03	I							62	X	500000	5	[13000] 12949	[14900] 14860	X	190	2.11
DICHLORVOS	62-73-7	0.0005	I	0.29	I	0.0005	I	0.000083	C	50		10000	2,4,5			X	234	
DICYCLOPENTADIENE	77-73-6	0.008	P			0.0003	X			810	X	40	5	[13000] 12957	[14900] 14870		167	
DIELDRIN	60-57-1	0.00005	I	16	I			0.0046	I	11000		0.17	4,5,6				385	0.12
DIETHANOLAMINE	111-42-2	0.002	P			0.0002	P			4		1000000	2,3,9			X	269	
DIETHYL PHTHALATE	84-66-2	0.8	I							81		1080	4,5,6			X	298	2.25
DIFLUBENZURON	35367-38-5	0.02	I							1,000		0.2	2				201	
DIISOPROPYL METHYLPHOSPHONATE	1445-75-6	0.08	I							10	X	160000	9	[13000] 12978	[14900] 14903	X	190	
DIMETHOATE	60-51-5	[0.0002] 0.0022	[I] O							110		25000	4				361	2.26
DIMETHOXYBENZIDINE, 3,3-	119-90-4			1.6	P					1,300		60	9				331	0.69
DIMETHRIN	70-38-2	0.3	M							27,000		0.036	13				353	
DIMETHYLAMINOAZOBENZENE, P-	60-11-7			4.6	C			0.0013	C	1000		13.6	7				335	4.50
DIMETHYLANILINE, N,N-	121-69-7	0.002	I	0.027	P					180	X	1200	5,6,7,9	[13000] 12944	[14900] 14852	X	192	0.69
DIMETHYLBENZIDINE, 3,3-	119-93-7			11	P					22,000		1300	10				300	18.07
DIMETHYL METHYLPHOSPHONATE	756-79-6	0.06	P	0.0017	P					5	X	1000000	14	[13000] 12998	[14900] 14930	X	181	
DIMETHYLPHENOL, 2,4-	105-67-9	0.02	I							130		7869	1,4,6,7			X	211	18.07
DINITROBENZENE, 1,3-	99-65-0	0.0001	I							150		523	3,5,6,7				291	0.69
DINITROPHENOL, 2,4-	51-28-5	0.002	I							0.79		5600	2,4,5,6,7				332	0.48
DINITROTOLUENE, 2,4-	121-14-2	0.002	I	0.31	C			0.000089	C	51		270	4,5,6				300	0.69
DINITROTOLUENE, 2,6- (2,6-DNT)	606-20-2	0.0003	X	1.5	P					74		200	6				300	0.69
DINOSEB	88-85-7	0.001	I							120		50	5				223	1.03

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[Regulated Substance] REGULATED SUBSTANCE	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d) <sup>-1</sup>		RfCi (mg/m <sup>3</sup> )		IUR (µg/m <sup>3</sup> ) <sup>-1</sup>		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference <sup>1</sup>	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr <sup>-1</sup> )
DIOXANE, 1,4-	123-91-1	0.03	I	0.1	I	[0.11] 0.03	[D] I	[0.0000077] 0.000005	[C]I	7.8	X	1000000	5	[13000] 12996	[14900] 14928	X	101	0.69
DIPHENAMID	957-51-7	0.03	I							200		260	5				210	
DIPHENYLAMINE	122-39-4	[0.025] 0.1	[I] O							190		300	3				302	4.50
DIPHENYLHYDRAZINE, 1,2-	122-66-7			0.8	I			0.00022	I	660	X	0.252	6	13375	15446		309	0.69
DIQUAT	85-00-7	0.0022	I							2.6		700000	5				355	
DISULFOTON	298-04-4	0.00004	I							1000		25	4,5,6			X	332	6.02
DITHIANE, 1,4-	505-29-3	0.01	I							22.7	X	3000	15	[13000] 12976	[14900] 14899		199	
DIURON	330-54-1	0.002	I							300		42	2,4,5				354	
ENDOSULFAN	115-29-7	0.006	I							2,000		0.48	4				401	2.78
ENDOSULFAN I (ALPHA)	959-98-8	0.006	S							2000		0.5	6				401	
ENDOSULFAN II (BETA)	33213-65-9	0.006	S							2300		0.45	6				390	
ENDOSULFAN SULFATE	1031-07-8	0.006	S							2300		0.117	7,9				409	
ENDOTHALL	145-73-3	0.02	I							120		100000	2				350	
ENDRIN	72-20-8	0.0003	I							11000		0.23	4,6,7,9				245	
EPICHLOROHYDRIN	106-89-8	0.006	P	0.0099	I	0.001	I	0.0000012	I	35	X	65800	1,3,4	[13000] 12972	[14900] 14893	X	116	4.50
ETHEPHON	16672-87-0	0.005	I							2		1240000	12				201	
ETHION	563-12-2	0.0005	I							8700		0.85	4,6,9,10			X	415	
ETHOXYETHANOL, 2- (EGEE)	110-80-5	0.09	P			0.2	I			12	X	1000000	2	[13200] 13100	[15000] 15040	X	136	4.50
ETHYL ACETATE	141-78-6	0.9	I			0.07	P			59	X	80800	1,2,3,4,5,6	[13100] 12963	[15000] 14881	X	77	18.07
ETHYL ACRYLATE	140-88-5	0.005	P	0.048	H	0.008	P			110	X	15000	1,2,6	[13100] 12951	[15100] 14863	X	100	18.07
ETHYL BENZENE	100-41-4	0.1	I	0.011	C	1	I	0.0000025	C	220	X	161	1,3,4	[13100] 13004	15000	X	136	1.11
ETHYL DIPROPYLTHIOCARBAMATE, S- (EPTC)	759-94-4	[0.025] 0.05	[I]O							240	X	365	2	[12900] 13056	[14900] 15014	X	127	
ETHYL ETHER	60-29-7	0.2	I							68	X	60400	1	[13100] 12982	[15100] 14908	X	35	
ETHYL METHACRYLATE	97-63-2	0.09	H			0.3	P			22	X	4635.5	9,10	[13100] 12991	[15000] 14921	X	117	
ETHYLENE CHLORHYDRIN	107-07-3	0.02	P							1	X	1000000	9	[13000] 13006	[14900] 14941	X	128	
ETHYLENE GLYCOL	107-21-1	2	I			0.4	C			4.4	X	1000000	2	[13100] 13004	[15100] 14938	X	198	10.54
ETHYLENE THIOUREA (ETU)	96-45-7	0.00008	I	0.045	C			0.000013	C	0.23		20000	2				347	4.50
ETHYL P-NITROPHENYL PHENYLPHOSPHORO THIOATE	2104-64-5	0.00001	I							1,200		3.1	4				215	

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FENAMIPHOS	22224-92-6	0.00025	I			300		329	2				390					
FENVALERATE (PYDRIN)	51630-58-1	0.025	I			4,400		0.085	5			X	300					
FLUOMETURON	2164-17-2	0.013	I			68		97.5	2,5,6,8				318					
FLUORANTHENE	206-44-0	0.04	I			49000		0.26	1,5,6				375	0.29				
FLUORENE	86-73-7	0.04	I			7900	X	1.9	1	20155	25294		298	2.11				
FLUOROTRICHLOROMETHANE (FREON 11)	75-69-4	0.3	I		0.7	H		130	X	1090	1,4,5,6	[13100] 13107	[15000] 15060	X	24	0.35		
FONOFOS	944-22-9	0.002	I			1100		13	5,6,8			X	324					
FORMALDEHYDE	50-00-0	0.2	I	0.021	C	[0.0098] 0.009	[D] C	0.000013	I	3.6	X	55000	1	[13100] 13046	[15100] 14990	X	-21	18.07
FORMIC ACID	64-18-6	0.9	P			0.0003	X			0.54	X	1000000	2	[13000] 12940	[14900] 14846	X	101	18.07
FOSETYL-AL	39148-24-8	[3] 2.5	[I] O					310		120000	2						464	
FURAN	110-00-9	0.001	I					130	X	10000	1	[13100] 13019	[15000] 14956	X	31	2.25		
FURFURAL	98-01-1	0.003	I	0.0349	O	0.05	H			6.3	X	91000	1,2,3	[13000] 12998	[14900] 14930	X	162	
GLYPHOSATE	1071-83-6	0.1	I					3500		12000	1,5,6						417	
HEPTACHLOR	76-44-8	0.0005	I	4.5	I			0.0013	I	6800		0.18	4,6,7				310	46.84
HEPTACHLOR EPOXIDE	1024-57-3	0.000013	I	9.1	I			0.0026	I	21000		0.311	4,6,7,9				341	0.23
HEXACHLOROBENZENE	118-74-1	0.0008	I	1.6	I			0.00046	I	3800		0.006	1,4,5				319	0.06
HEXACHLOROBUTADIENE	87-68-3	0.001	P	0.078	I			0.000022	I	4700		2.89	4,5,6,7			X	215	0.69
HEXACHLOROCYCLOPENTADIENE	77-47-4	0.006	I			0.0002	I			7200		1.8	5,6,7			X	239	4.50
HEXACHLOROETHANE	67-72-1	0.0007	I	0.04	I	0.03	I	[0.00001] 0.000011	C	2200	X	50	1	[13000] 14825	[15000] 17421		187	0.69
HEXANE	110-54-3	0.06	H			0.7	I			3600	X	9.5	1,5,6	[13100] 13105	[15000] 15056	X	69	
HEXAZINONE	51235-04-2	0.033	I					41		330000	1,2						408	
HEXYTHIAZOX (SAVEY)	78587-05-0	0.025	I					6,500		0.5	2						539	
HMX	2691-41-0	0.05	I					4		5	16						436	
HYDRAZINE/HYDRAZINE SULFATE	302-01-2			3	I	0.00003	P	0.0049	I	0.0053	X	1000000	2	[13000] 13026	[15000] 14966	X	114	18.07
HYDROQUINONE	123-31-9	0.04	P	0.06	P			10		70000	2,3,5						285	18.07
INDENO[1,2,3-CD]PYRENE	193-39-5			1.2	C			0.00011	C	31000000		0.062	5				536	0.17
IPRODIONE	36734-19-7	0.04	I	0.0439	O			1,100		13	2						545	
ISOBUTYL ALCOHOL	78-83-1	0.3	I					60	X	81000	1,2,3,4,5	[13000] 12954	[14900] 14866	X	108	17.57		
ISOPHORONE	78-59-1	0.2	I	0.00095	I	2	C			31		12000	2,4,5			X	215	4.5
ISOPROPYL METHYLPHOSPHONATE	1832-54-8	0.1	I					1.84		50000	13					X	230	
KEPONE	143-50-0	0.0003	I	10	I			0.0046	C	55000		7.6	4				350	0.17
MALATHION	121-75-5	0.02	I					1300		143	4					X	351	2.46
MALEIC HYDRAZIDE	123-33-1	0.5	I					2.8		6000	4						260	

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[Regulated Substance] REGULATED SUBSTANCE	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d) <sup>-1</sup>		RfCi (mg/m <sup>3</sup> )		IUR (µg/m <sup>3</sup> ) <sup>-1</sup>		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference <sup>1</sup>	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr <sup>-1</sup> )
MANEB	12427-38-2	0.005	I	<b>0.0601</b>	<b>O</b>					1		23	9,13				351	
MERPHOS OXIDE	78-48-8	<b>[0.0003] 0.001</b>	<b>[I] O</b>							53,000		2.3	8,10,12			X	392	
METHACRYLONITRILE	126-98-7	0.0001	I			0.03	P			21	X	25700	1	<b>[13100] 12994</b>	<b>[15100] 14925</b>	X	90	
METHAMIDOPHOS	10265-92-6	0.00005	I							5		2000000	5				223	
METHANOL	67-56-1	<b>[0.5] 2</b>	I			<b>[4] 20</b>	<b>[C] I</b>			2.8	X	1000000	2	<b>[13100] 13025</b>	<b>[15100] 14964</b>	X	65	36.14
METHOMYL	16752-77-5	0.025	I							20		58000	2				228	
METHOXYCHLOR	72-43-5	0.005	I							63000		0.045	4,5,6				346	0.69
METHOXYETHANOL, 2-	109-86-4	0.005	P			0.02	I			1	X	1000000	2	<b>[13100] 13141</b>	<b>[15000] 15115</b>	X	124	4.50
METHYL ACETATE	79-20-9	1	<b>[H] X</b>							30	X	243500	4,5,6	<b>[13100] 12982</b>	<b>[15100] 14908</b>	X	57	
METHYL ACRYLATE	96-33-3	0.03	H			0.02	P			55	X	52000	1,2,5	<b>[13100] 12971</b>	<b>[15100] 14892</b>	X	70	18.07
METHYL CHLORIDE	74-87-3			0.013	H	0.09	I	0.0000018	H	6	X	6180	1,2,3,4	<b>[13200] 13103</b>	<b>[15000] 15038</b>	X	-24	4.50
METHYL ETHYL KETONE	78-93-3	0.6	I			5	I			32	X	275000	1,2,3,4,5	<b>[13100] 12974</b>	<b>[15100] 14897</b>	X	80	2.57
METHYL HYDRAZINE	60-34-4	0.001	P			0.00002	X	0.001	X	1	X	1000000	2	<b>[1300] 13011</b>	<b>[14900] 14947</b>	X	88	5.27
METHYL ISOBUTYL KETONE	108-10-1	0.08	H			3	I			17	X	19550	1,2,4,5	<b>[13100] 12983</b>	<b>[15100] 14910</b>	X	117	18.07
METHYL ISOCYANATE	624-83-9					0.001	C			10	X	100000	7	<b>[13000] 13021</b>	<b>[15000] 14959</b>	X	40	
METHYL N-BUTYL KETONE (2- HEXANONE)	591-78-6	0.005	I			0.03	I			54	X	17500	1	<b>[13100] 12955</b>	<b>[15100] 14868</b>	X	128	
METHYL METHACRYLATE	80-62-6	1.4	I			0.7	I			10	X	15600	1	<b>[13100] 13001</b>	<b>[15100] 14934</b>	X	100	4.50
METHYL METHANESULFONATE	66-27-3			0.099	C			0.000028	C	5.2		200000	2			X	203	
METHYL PARATHION	298-00-0	0.00025	I							790		25	4,5,6				348	3.61
METHYL STYRENE (MIXED ISOMERS)	25013-15-4	0.006	H			0.04	H			2,200	X	89	9	<b>[13100] 12945</b>	<b>[15000] 14853</b>	X	163	
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4			0.0018	C	3	I	0.00000026	C	12	X	45000	1,2,4,6	<b>[13100] 13014</b>	<b>[15100] 14950</b>	X	55	0.69
METHYLCHLOROPHENOXYACETIC ACID (MCPA)	94-74-6	0.0005	I							112		1000	5,6,8,9				287	1.39
METHYLENE BIS(2-CHLOROANILINE), 4,4'-	101-14-4	0.002	P	0.1	P			0.00043	C	3,000		13.9	10				379	
METHYLNAPHTHALENE, 2-	91-57-6	0.004	I			0.003	S			16000	<b>X</b>	25	1	<b>12955</b>	<b>14870</b>		241	
METHYLSTYRENE, ALPHA	98-83-9	0.07	H							660	X	560	9	<b>[13100] 12942</b>	<b>[15100] 14850</b>	X	165	

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**Appendix A**  
**Table 5 – Physical and Toxicological Properties**  
**A. Organic Regulated Substances**

[Regulated Substance] REGULATED SUBSTANCE	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d) <sup>-1</sup>	RfCi (mg/m <sup>3</sup> )	IUR (µg/m <sup>3</sup> ) <sup>-1</sup>	Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference <sup>1</sup>	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr <sup>-1</sup> )
METOLACHLOR	51218-45-2	0.15	I				182	X	530	1,5	[13000] 13035	[15000] 14985	X	100	
METRIBUZIN	21087-64-9	0.025	I				95		1200	1,5				367	
<b>MEVINPHOS</b>	<b>7786-34-7</b>	<b>0.000025</b>	<b>O</b>				<b>44</b>	<b>X</b>	<b>600000</b>	<b>6</b>	<b>12947</b>	<b>14856</b>			
MONOCHLOROACETIC ACID	79-11-8	0.002	H				0.24	X	858000	17	[13000] 13008	[14900] 14943		189	
NAPHTHALENE	91-20-3	0.02	I	0.12	C	0.00034	950	X	30	3	13284	15323		218	0.98
NAPHTHYLAMINE, 1-	134-32-7			1.8	[S] C	[0.00051]	3200	X	1690	2	15517	18386		301	0.69
NAPHTHYLAMINE, 2-	91-59-8			1.8	C	[0.00051]	87		6.4	6				306	0.69
NAPROPAMIDE	15299-99-7	[0.1] 0.12	[I] O				880		70	2				399	
NITROANILINE, O-	88-74-4	0.01	X			0.00005	27	X	1200	6	12967	14886		284	
NITROANILINE, P-	100-01-6	0.004	P	0.02	P	0.006	15		800	2				332	
NITROBENZENE	98-95-3	0.002	I			0.00004	130	X	2000	2	12940	14847	X	211	0.64
NITROGUANIDINE	556-88-7	0.1	I				0.13		4400	9				231	
NITROPHENOL, 2-	88-75-5	0.008	S				37	X	2100	1,2,3,4,5,6	12966	14884		215	9.01
NITROPHENOL, 4-	100-02-7	0.008	[N] M				230	X	16000	2	12960	14878		279	25.81
NITROPROPANE, 2-	79-46-9					0.02	20	X	16700	1,3,4,5	[13000] 12984	[14900] 14911	X	120	0.69
NITROSODIETHYLAMINE, N-	55-18-5			150	I	0.043	26	X	93000	10	[13000] 12974	[14900] 14896	X	176	0.69
NITROSODIMETHYLAMINE, N-	62-75-9	0.000008	P	51	I	0.00004	8.5	X	1000000	2	[13000] 13001	[14900] 14934	X	154	0.69
NITROSO-DI-N-BUTYLAMINE, N-	924-16-3			5.4	I	0.0016	450	X	1200	9, 10, 11	13008	14946	X	235	0.69
NITROSODI-N-PROPYLAMINE, N-	621-64-7			7	I	0.002	11	X	9900	6	12986	14914	X	206	0.69
NITROSODIPHENYLAMINE, N-	86-30-6			0.0049	I	0.0000026	580	X	35	1	13148	15140		269	3.72
NITROSO-N-ETHYLUREA, N-	759-73-9			27	C	0.0077	2		13000	9				223	1734.48
OCTYL PHTHALATE, DI-N-	117-84-0	0.01	P				980000000		3	5			X	234	0.69
OXAMYL (VYDATE)	23135-22-0	0.025	I				7.1		280000	2				334	
PARAQUAT	1910-42-5	0.0045	I				16200		660000	6,8				352	
PARATHION	56-38-2	[0.006] 0.00003	[H] O				2300		20	2,4,5,6,7			X	375	
<b>PCBS, TOTAL (POLYCHLORINATED BIPHENYLS) (AROCLORS)</b>	<b>1336-36-3</b>			<b>2</b>	<b>I</b>	<b>0.0001</b>			<b>0.0505</b>	<b>10,13</b>				<b>360</b>	
[PCB-1016 (AROCLOR)]	[12674-11-2]	[0.00007]	[I]	[2]	[S]	[0.00057]	[110000]		[0.25]	[5]			[X]	[325]	
[PCB-1221 (AROCLOR)]	[11104-28-2]			[2]	[S]	[0.00057]	[1900]		[0.59]	[5]			[X]	[275]	
[PCB-1232 (AROCLOR)]	[11141-16-5]			[2]	[S]	[0.00057]	[1500]		[1.45]	[7]			[X]	[290]	

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**A. Organic Regulated Substances**

[Regulated Substance] REGULATED SUBSTANCE	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d) <sup>-1</sup>		RfCi (mg/m <sup>3</sup> )	IUR (µg/m <sup>3</sup> ) <sup>-1</sup>		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference <sup>1</sup>	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr <sup>-1</sup> )
[PCB-1242 (AROCLOR)]	[53469-21-9]			[2]	[S]		[0.00057]	[S]	[48000]		[0.1]	[5]			[X]	[325]	
[PCB-1248 (AROCLOR)]	[12672-29-6]			[2]	[S]		[0.00057]	[S]	[190000]		[0.054]	[7,9,11]			[X]	[340]	
[PCB-1254 (AROCLOR)]	[11097-69-1]	[0.00002]	[I]	[2]	[S]		[0.00057]	[S]	[810000]		[0.057]	[5]			[X]	[365]	
[PCB-1260 (AROCLOR)]	[11096-82-5]			[2]	[S]		[0.00057]	[S]	[1800000]		[0.08]	[5]				[385]	
PEBULATE	1114-71-2	0.05	H						630		92	5			X	303	
PENTACHLOROBENZENE	608-93-5	0.0008	I						32000		0.74	1,5,6,7				277	0.37
PENTACHLOROETHANE	76-01-7			0.09	P				1905	X	480	1,3	[13100] 13120	[15100] 15102	X	160	
PENTACHLORONITROBENZENE	82-68-8	0.003	I	0.26	H				7900		0.44	4,6,8				328	0.36
PENTACHLOROPHENOL	87-86-5	0.005	I	0.4	I		[0.0000046] 0.0000051	C	20000		14	1,2,4,5				310	0.17
<b>PERFLUOROBUTANE SULFONATE (PFBS)</b>	<b>375-73-5</b>	<b>0.02</b>	<b>P</b>						<b>61.7</b>		<b>56600</b>	<b>9</b>			<b>X</b>	<b>211</b>	
<b>PERFLUOROCTANE SULFONATE (PFOS)</b>	<b>1763-23-1</b>	<b>0.00002</b>	<b>M</b>	<b>0.07</b>	<b>M</b>				<b>2.57</b>		<b>680</b>	<b>19,20,21,22,23</b>				<b>258</b>	
<b>PERFLUOROCTANOIC ACID (PFOA)</b>	<b>335-67-1</b>	<b>0.00002</b>	<b>M</b>						<b>2.06</b>		<b>9500</b>	<b>24</b>				<b>192</b>	
PHENACETIN	62-44-2			0.0022	C		0.00000063	C	110		763	2,3,9				341	4.50
PHENANTHRENE	85-01-8	0.3	S						38000	X	1.1	1,4,5	<b>41808</b>	<b>70721</b>		341	0.63
PHENOL	108-95-2	0.3	I			0.2	C		22	X	84300	1,2,3,4	[13000] 12977	[14900] 14901		182	36.14
PHENYL MERCAPTAN	108-98-5	0.001	P						562	X	653	5,9	[13000] 13039	[15000] 14989	X	170	
PHENYLENEDIAMINE, M- PHENYLPHENOL, 2-	108-45-2 90-43-7	0.006	I			[0.0019] 0.00194	H		12 5,700		351000 700	3 5				286 280	4.50 18.07
PHORATE	298-02-2	0.0002	[H] O						810		50	2			X	319	
PHTHALIC ANHYDRIDE	85-44-9	2	I			0.02	C		79	X	6170	2	<b>13018</b>	<b>14956</b>		285	13490.40
PICLORAM	1918-02-1	0.07	I						15		430	2				373	
<b>[POLYCHLORINATED BIPHENYLS (AROCLORS) (PCBS)]</b>	<b>[1336-36-3]</b>			[2]	[I]		[0.00057]	[I]			[0.0505]	[10,13]				[360]	
PROMETON	1610-18-0	0.015	I						346		750	2,5				347	
PRONAMIDE	23950-58-5	0.075	I						200		15	2				321	
<b>PROPACHLOR</b>	<b>1918-16-7</b>	<b>0.013</b>	<b>I</b>						<b>139</b>	<b>X</b>			<b>12952</b>	<b>14865</b>		<b>110</b>	<b>1.73</b>
PROPANIL	709-98-8	0.005	I						160		225	2				355	
PROPANOL, 2- (ISOPROPYL ALCOHOL)	67-63-0	2	P			0.2	P		25	X	1000000	2	[13000] 12981	[14900] 14906	X	82	
PROPAZINE	139-40-2	0.02	I						155		8.6	1,5			X	318	
PROPHAM	122-42-9	0.02	I						51		250	5				257	

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PROPYLBENZENE, N-	103-65-1	0.1	X			1	X			720	X	52	6	[13100] 12971	[15100] 14891	X	159	
PROPYLENE OXIDE	75-56-9	<b>0.001</b>	<b>O</b>	0.24	I	0.03	I	0.0000037	I	25	X	405000	1	[13100] 13239	[15000] 15057	X	34	
PYRENE	129-00-0	0.03	I							68000		0.132	1				393	0.07
<b>PYRETHRUM</b>	<b>8003-34-7</b>	<b>0.044</b>	<b>O</b>							<b>5.62</b>	<b>X</b>	<b>0.35</b>	<b>13</b>			<b>X</b>	<b>170</b>	
PYRIDINE	110-86-1	0.001	I							0.0066	X	1000000	2	[13100] 13142	[15000] 15114	X	115	18.07
QUINOLINE	91-22-5			3	I					1,300		60000	1,3,5			X	238	12.65
QUIZALOFOP (ASSURE)	76578-14-8	0.009	I							580		0.3	2				220	
RDX	121-82-4	[0.003] 0.004	I	[0.11] 0.08	I					70		59.9	1,9				353	
RESORCINOL	108-46-3	2	TE							2		717000					280	
RONNEL	299-84-3	0.05	H							580		40	2				349	
SIMAZINE	122-34-9	0.005	I	0.12	H					110		5	5				225	
STRYCHNINE	57-24-9	0.0003	I							280		143	5				270	4.50
STYRENE	100-42-5	0.2	I			1	I			910	X	300	5	[13100] 12942	[15100] 14850	X	145	1.20
TEBUTHIURON	34014-18-1	0.07	I							620		2500	2				394	
TERBACIL	5902-51-2	0.013	I							53		710	2				396	
TERBUFOS	13071-79-9	0.000025	H							510		5	6			X	332	
TETRACHLOROBENZENE, 1,2,4,5-	95-94-3	0.0003	I							1,800		0.583	1,5,6,7				245	0.69
TETRACHLORODIBENZO-P-DIOXIN, 2,3,7,8- (TCDD)	1746-01-6	0.000000007	[D] I	130000	C	0.00000004	C	38	C	4300000		0.0000193	6				412	0.21
TETRACHLOROETHANE, 1,1,1,2-	630-20-6	0.03	I	0.026	I			0.0000074	I	980	X	1100	1	[13000] 12990	[14600] 14921	X	131	3.79
TETRACHLOROETHANE, 1,1,2,2-	79-34-5	0.02	I	0.2	I			0.000058	I	79	X	2860	2	[13100] 12957	[15100] 14871	X	147	0.56
TETRACHLOROETHYLENE (PCE)	127-18-4	0.006	I	0.0021	I	0.04	I	0.00000026	I	300	X	162	1,2,3,4,5	[13100] 13017	[15000] 14955	X	121	0.03
TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	0.03	I							6200		183	6				288	0.69
TETRAETHYL LEAD	78-00-2	0.0000001	I							4900		0.8	5			X	202	4.50
TETRAETHYLDITHIOPYROPHOSPHATE	3689-24-5	0.0005	I							550		25	2			X	349	
TETRAHYDROFURAN	109-99-9	0.9	I	0.0076	[N] I	2	I	0.00000194	[N] I	43	X	300000	1,6,7	[13100] 12970	[15100] 14891	X	66	
THIOFANOX	39196-18-4	0.0003	H							0.022		5200	9				280	
THIRAM	137-26-8	[0.005] 0.015	[I] O							1000		30	4				339	
TOLUENE	108-88-3	0.08	I			5	I			130	X	532.4	1,2,3,4	[13100] 13016	[15000] 14953	X	111	9.01
TOLUIDINE, M-	108-44-1			0.016	S			0.000051	S	140		15030	6			X	203	
TOLUIDINE, O-	95-53-4			0.016	P			0.000051	C	410		15000	1,3,5			X	200	18.07
TOLUIDINE, P-	106-49-0	0.004	X	0.03	P					320		7410	1,2,3				200	

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**A. Organic Regulated Substances**

[Regulated Substance] REGULATED SUBSTANCE	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d) <sup>-1</sup>		RfCi (mg/m <sup>3</sup> )		IUR (µg/m <sup>3</sup> ) <sup>-1</sup>		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference <sup>1</sup>	TF Vol from Surface Soil	TF Vol from SubSurface Soil	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr <sup>-1</sup> )
		[M] P	[I] O															
TOXAPHENE	8001-35-2	[0.0004] 0.00009	[M] P	1.1	I			0.00032	I	1500		3	2,4,5				432	
TRIALATE	2303-17-5	[0.013] 0.025	[I] O	0.717	O					2,000		4	5			X	343	
TRIBROMOMETHANE (BROMOFORM)	75-25-2	0.02	I	0.0079	I			0.0000011	I	130	X	3050	1,2,3,4	[13100] 12942	[15100] 14849	X	149	0.69
TRICHLORO-1,2,2-TRIFLUOROETHANE, 1,1,2-	76-13-1	30	I			[30] S	[H] P			1,200	X	170	1	[13100] 13064	[15000] 15014	X	48	0.35
TRICHLOROACETIC ACID	76-03-9	0.02	I	0.07	I					20	X	1200000	2,3,5,9	13291	15077		196	
TRICHLOROBENZENE, 1,2,4-	120-82-1	0.01	I	0.029	P	0.002	P			1500	X	44.4	1,4,6,7	13217	15233	X	213	0.69
TRICHLOROBENZENE, 1,3,5-	108-70-3	0.006	M			0.002	S			3100	X	5.8	5	15677	18611		208	
TRICHLOROETHANE, 1,1,1-	71-55-6	2	I			5	I			100	X	1495	1,4,5,6	[13100] 13116	[15000] 15082	X	74	0.05
TRICHLOROETHANE, 1,1,2-	79-00-5	0.004	I	0.057	I	0.0002	X	0.000016	I	76	X	4420	1	[13100] 12982	[15100] 14909	X	114	0.03
TRICHLOROETHYLENE (TCE)	79-01-6	0.0005	I	[0.05] 0.046	I	0.002	I	0.000004	I	93	X	1100	1	[13100] 13070	[15000] 15022	X	87	0.02
TRICHLOROPHENOL, 2,4,5-	95-95-4	0.1	I							2400		1000	1,2,4				246	0.14
TRICHLOROPHENOL, 2,4,6-	88-06-2	0.001	P	0.011	I			0.0000031	I	1100		850	1,2,4,5				246	0.14
TRICHLOROPHENOXYACETIC ACID, 2,4,5- (2,4,5-T)	93-76-5	0.01	I							43		278	2,4,5				279	1.39
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5- (2,4,5-TP)(SILVEX)	93-72-1	0.008	I							1700		140	2				353	
TRICHLOROPROPANE, 1,1,2-	598-77-6	0.005	I							24	X	2700	14	[13100] 13145	[15000] 15119	X	117	
TRICHLOROPROPANE, 1,2,3-	96-18-4	0.004	I	30	I	0.0003	I			280	X	1896	1,4,6	[13100] 12974	[15100] 14896	X	157	0.35
TRICHLOROPROPENE, 1,2,3-	96-19-5	0.003	X			0.0003	P			190	X	2700	14	[13100] 13047	[15000] 14992	X	142	
TRIETHYLAMINE	121-44-8					0.007	I			51	X	55000	1,4	[13100] 12951	[15100] 14862	X	90	
TRIETHYLENE GLYCOL	112-27-6	2	P							6		1000000	12			X	285	
TRIFLURALIN	1582-09-8	0.0075	I	0.0077	I					720		4	2,5,6,7				382	
TRIMETHYLBENZENE, 1,3,4- (TRIMETHYLBENZENE, 1,2,4-)	95-63-6	0.01	I			[0.007] 0.06	[P] I			2,200	X	56	1	[13100] 12978	[15000] 14904	X	169	4.50
TRIMETHYLBENZENE, 1,3,5-	108-67-8	0.01	[X] I			0.06	I			660	X	48.9	1	[13100] 12961	[15100] 14876	X	165	
TRINITROGLYCEROL (NITROGLYCERIN)	55-63-0	0.0001	P	0.017	P					116	X	1800	2,3,5	[13000] 12941	[15000] 14848	X	190	18.07
TRINITROTOLUENE, 2,4,6-	118-96-7	0.0005	I	0.03	I					1		100	2				240	
VINYL ACETATE	108-05-4	1	H			0.2	I			2.8	X	20000	1	[13200] 13017	[15000] 14955	X	73	

<sup>1</sup>Aqueous solubility references are keyed to the numbered list found at §250.304(f). Where there are multiple sources cited. The table value is the median of the values in the individual references.

Toxicity Value Sources:

C = California EPA [Cancer  
Potency Factor]

D = ATSDR Minimal Risk Level  
H = Health Effects Assessment  
Summary Table (HEAST)

I = Integrated Risk Information  
System (IRIS)

M = EPA Drinking Water  
Regulations and Health  
Advisories

[N = EPA NCEA Provisional Values] O =  
EPA Office of Pesticide Programs Human  
Health Benchmarks for Pesticides

P = EPA Provisional Peer-Reviewed Toxicity Value  
S = surrogate

[T = TEF]

TE = TERA ITER Peer-Reviewed Value  
X = EPA Provisional Peer-Reviewed Toxicity  
Value Appendix

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<b>[Regulated Substance] REGULATED SUBSTANCE</b>	CAS	RfDo (mg/kg-d)		CSFo (mg/kg-d) <sup>-1</sup>		RfCi (mg/m <sup>3</sup> )		IUR (µg/m <sup>3</sup> ) <sup>-1</sup>		Koc	VOC?	Aqueous Sol (mg/L)	Aqueous Sol Reference <sup>1</sup>	TF	TF	Organic Liquid	Boiling Point (degrees C)	Degradation Coefficient (K)(yr <sup>-1</sup> )
		Surface Soil	SubSurface Soil															
VINYL BROMIDE (BROMOETHENE)	593-60-2					0.003	I	0.000032	H	150	X	4180	12	[13100] 13086	[15000] 15043	X	16	0.09
VINYL CHLORIDE	75-01-4	0.003	I	1.5	I	0.1	I	[0.000009] 0.0000088	I	10	X	2700	1	[13200] 13109	[15000] 15040	X	-13	0.09
WARFARIN	81-81-2	0.0003	I							910		17	4				356	4.50
XYLENES (TOTAL)	1330-20-7	0.2	I			0.1	I			350	X	175	13	[13100] 12982	[15000] 14909	X	140	0.69
ZINEB	12122-67-7	0.05	I							19		10	4				474	

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