

**APPENDIX A**  
**TABLE 5 – PHYSICAL AND TOXICOLOGICAL PROPERTIES**  
**A. ORGANIC REGULATED SUBSTANCES**

Regulated Substance	CAS	RfDo (mg/kg-d)	CSFo (mg/kg-d) <sup>-1</sup>	[RfDi (mg/kg-d)] RfC (mg/m <sup>3</sup> )	[CSFi (mg/kg-d)-1] IUR (µg/m <sup>3</sup> ) <sup>-1</sup>	Koc (L/KG)	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		[0.06] [Ir]		4,900		3.8	1,5,6				279	1.24
ACENAPHTHYLENE	208-96-8	0.06 S		[0.06] [S]		4,500		16.1	5,6,7				280	2.11
ACEPHATE	30560-19-1	0.004 ↓	0.0087 ↓			3		818,000	6				340	
ACETALDEHYDE	75-07-0		[0.0077] [Ir]	[0.0026] 0.009 I	[0.0077] 0.0000022 I	4.1	X	1,000,000	1	13,100	15,100	X	20	
ACETONE	67-64-1	[0.1] 0.9 I		[8.86] 31 D		0.31	X	1,000,000	1	13,100	15,000	X	56	18.07
ACETONITRILE	75-05-8			[0.017] 0.06 I		0.5	X	1,000,000	1	13,100	15,000	X	82	4.50
ACETOPHENONE	98-86-2	0.1 I		[0.1] [Ir]		170		5,500	1			X	203	
ACETYLAMINOFLUORENE, 2- (2AAF)	53-96-3		3.8 C		[3.8] 0.0013 C	1,600		10.13	7				303	0.69
ACROLEIN	107-02-8	[0.02] [H] 0.0005 ↓		[0.000005] 7] 0.00002 †		0.56	X	208,000	1,2,4	13,100	15,100	X	53	4.50
ACRYLAMIDE	79-06-1	0.0002 I	4.5 [Ir] ↓	[0.0002] [Ir]	[4.55] 0.0013 I	25	X	2,151,000	4	13,000	15,000	[X]	[192.6] 193	
ACRYLIC ACID	79-10-7	0.5 I		[0.000286] 0.001 I		29	X	1,000,000	2	13,000	14,900	X	141	1.39
ACRYLONITRILE	107-13-1	[0.001] [H] 0.04 ↓	0.54 I	[0.000571] 0.002 I	[0.238] 0.000068 I	11	X	73,500	1	13,100	15,100	X	77	5.50
ALACHLOR	15972-60-8	0.01 I	[0.08] [H] 0.056 C	[0.01] [Ir]	[0.08] [Hr]	110		140	2				[100] 378	
ALDICARB	116-06-3	0.001 I		[0.001] [Ir]		22		6,000	2				287	0.40
ALDICARB SULFONE	1646-88-4	0.001 ↓				10		8,000	5				317	
ALDICARB SULFOXIDE	1646-87-3	0.001 ↓				0.22		330,000	5				307	
ALDRIN	309-00-2	0.00003 I	17 I	[0.00003] [Ir]	[17.15] 0.0049 I	48,000		0.02	4,5,6				[145] 330	0.22
ALLYL ALCOHOL	107-18-6	0.005 I		[0.005] [Ir] 0.0003 P		3.2	X	1,000,000	2	13,100	15,000	X	97	18.07
AMETRYN	834-12-8	0.009				389		185	5				345	
AMINOBIHENYL, 4-	92-67-1		21 C		[21] 0.006 C	110		1,200	5				302	18.07
AMITROLE	61-82-5		0.94 C		[0.945] 0.00027 C	120		280,000	4				[200] 258	0.69
AMMONIA	7664-41-7	0.97 H		[0.0286] 0.1 I		3	X	310,000	2,5,7	13,100	15,000	X	[-33.3] -33	
AMMONIUM SULFAMATE	7773-06-0	0.2 I		[0.2] [Ir]		3		2,160,000	10				[200] 603	

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ANILINE	62-53-3	0.007 [N] P	0.0057 I	[0.000286] 0.001 I	[0.0056] 0.0000016 C	190	X	33,800	1	13,000	14,900	X	184	
ANTHRACENE	120-12-7	0.3 I		[0.3] [Ir]		21,000		0.066	1,5,6,7,8,9				340	0.28
ATRAZINE	1912-24-9	0.035 I	[0.222] [H] 0.23 C	[0.035] [Ir]	[0.222] [Hr]	130		70	2,4,5				[200] 313	
AZINPHOS-METHYL (GUTHION)	86-50-0	0.003 D		0.01 D		407.4		31.5	1.2				421	
BAYGON (PROPOXUR)	114-26-1	0.004 I		[0.004] [Ir]		31		2,000	2,4,5				decomp.	4.50
BENOMYL	17804-35-2	0.05 I				1,900		2	5				520	
BENTAZON	25057-89-0	0.03 I				13		500	2				415	
BENZENE	71-43-2	[0.003] [N] 0.004 I	[0.029] I 0.055	[0.0017] [N] 0.03 I	[0.027] I 0.0000078	58	X	1,780.5	1,2,3,4	13,100	15,000	X	81	0.35
BENZIDINE	92-87-5	0.003 I	230 I	[0.003] [Ir]	[230] [Ir] 0.067 I	530,000		520	1,2,4				400	15.81
BENZO[A]ANTHRACENE	56-55-3		0.73 N		[0.31] [T] 0.00011 C	350,000		0.011	1,5,6				438	0.19
BENZO[A]PYRENE	50-32-8		7.3 I		[3.1] [N] 0.0011 C	910,000		0.0038	1,5,6				495	0.24
BENZO[B]FLUORANTHENE	205-99-2		0.73 N		[0.31] [T] 0.00011 C	550,000		0.0012	5,6,7				357	0.21
BENZO[GHI]PERYLENE	191-24-2	0.06 S		[0.06] [S]		2,800,000		0.00026	1,5,6				500	0.19
BENZO[K]FLUORANTHENE	207-08-9		0.073 N	-	[0.031] [T] 0.00011 C	4,400,000		0.00055	5,6,7				480	0.06
BENZOIC ACID	65-85-0	4 I		[4] [Ir]		32		2,700	2,3,4,5				249	
BENZOTRICHORIDE	98-07-7		13 I			920		53	1,5,13			X	221	121,413.60
BENZYL ALCOHOL	100-51-6	[0.3] 0.5 [H] P		[0.3] [Hr]		100		40,000	1,2,3			X	205	
BENZYL CHLORIDE	100-44-7	0.002 P	0.17 I	0.001 P	[0.1715] 0.000049 C	190	X	493	1	13,000	15,000	X	179	20.90
BETA PROPIOLACTONE	57-57-8		14 C		0.004 C	4	X	370,000	2	13,100	15,000	X	162	0.01
BHC, ALPHA	319-84-6	0.008 D	6.3 I	[0.0006] [S]	[6.3] 0.0018 I	1,800		1.7	4,5,6,7				288	0.94
BHC, BETA-	319-85-7	[0.0006] [D]	1.8 I	[0.0006] [Dr]	[1.855] 0.00053 I	2,300		0.1	6				[60] 304	1.02
[BHC, DELTA-]	[319-86-8]	[0.0006] [S]		[0.0006] [S]		[1,900]		[8]	[6]				[60]	[1.26]
BHC, GAMMA (LINDANE)	58-89-9	0.0003 I	[1.3] 1.1 [H] C	[0.0003] [Ir]	[1.085] 0.00031 C	1,400		7.3	4,5,6				323	1.05
BIPHENYL, 1,1-	92-52-4	0.05 I		[0.05] [Ir]		1,700		7.2	1				255	18.07

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BIS(2-CHLOROETHOXY)METHANE	111-91-1	0.003 P				61		100,500	4,6,7,9,10,11			X	218	
BIS(2-CHLOROETHYL)ETHER	111-44-4		1.1 I		[1.155] 0.00033 I	76	X	10,200	1,4,5	13,000	14,900	X	179	0.69
BIS(2-CHLORO-ISOPROPYL)ETHER	108-60-1	0.04 I	0.07 H	[0.04] [Ir]	[0.035] 0.00001 H	62	X	1,700	5	13,000	14,900	X	189	0.69
BIS(CHLOROMETHYL)ETHER	542-88-1		220 I		[217] 0.062 I	16	X	22,000	6	13,100	15,100	X	105	57,270.57
BIS[2-ETHYLHEXYL] PHTHALATE	117-81-7	0.02 I	0.014 I	[0.02] [Ir]	[0.014] [N] 0.000024 C	87,000		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	
BROMOCHLOROMETHANE	74-97-5	0.01 M				27	X	16,700	4	13,100	15,000	X	68	
BROMODICHLOROMETHANE	75-27-4	0.02 I	0.062 I	[0.02] [Ir]	[0.1295] 0.000037 C	93	X	4,500	6	13,100	15,000	X	87	
BROMOMETHANE	74-83-9	0.0014 I		[0.0014] 0.005 I		170	X	17,500	2	13,100	15,000	X	4	6.66
BROMOXYNIL	1689-84-5	0.02 I				300		130	2				329	
BROMOXYNIL OCTANOATE	1689-99-2	0.02 I				18,000		0.08	12				414	5.75
BUTADIENE, 1,3-	106-99-0		3.4 C	0.002 I	[0.98] 0.00003 I	120	X	735	1	13,200	15,000	X	-4.5	4.50
BUTYL ALCOHOL, N-	71-36-3	0.1 I		[0.1] [Ir]		3.2	X	74,000	1	13,000	14,900	X	118	4.68
BUTYLATE	2008-41-5	0.05 I				540	X	45	2	13,200	15,200	X	138	
BUTYLBENZENE, N-	104-51-8	0.04 N				2,500	X	15	1,6,7	13,100	15,100	X	[183.1] 183	
BUTYLBENZENE, SEC-	135-98-8	0.04 N				890	X	17	1,6,7	13,100	15,000	X	[173.5] 174	
BUTYLBENZENE, TERT-	98-06-6	0.04 N				680	X	30	1,6,7	13,100	15,000	X	169	
BUTYLBENZYL PHTHALATE	85-68-7	0.2 I	0.0019 P	[0.2] [Ir]		34,000		2.69	4,5,6			X	370	1.39
CAPTAN	133-06-2	0.13 I	[0.0035] [H] 0.0023 C	[0.13] [Ir]	[0.00231] 0.0000006 C 6	200		0.5	4				259	589.39
CARBARYL	63-25-2	0.1 I		[0.1] [Ir]		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		[0.005] [Ir]		43		700	2				[200] 311	
CARBON DISULFIDE	75-15-0	0.1 I		[0.2] 0.7 I		300	X	2,100	1,2,3	13,100	15,100	X	46	
CARBON TETRACHLORIDE	56-23-5	0.0007 I	0.13 I	[0.00057] [N] 0.19 D	[0.0525] 0.000015 I	160	X	795	1,2,3	13,100	15,000	X	77	0.07

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CARBOXIN	5234-68-4	0.1 I				260		170	5,6,8				407	
CHLORAMBEN	133-90-4	0.015 I		[0.015] [Ir]		20		700	2				210	
CHLORDANE	57-74-9	0.0005 I	0.35 I	[0.0002] 0.0007 I	[0.35] 0.0001 I	98,000		0.056	4,5,7				[175] 351	[0.091] 0.09
CHLORO-1,1-DIFLUOROETHANE, 1-	75-68-3			[14.3] 50 I		22	X	1,400	4	13.100	15.000	X	[-9.2] -9	
CHLORO-1-PROPENE, 3- (ALLYL CHLORIDE)	107-05-1	[0.00028 6] [Ir]	0.021 C	[0.000286] 0.001 I	[0.021] 0.000006 C	48	X	3,300	1,3,5,7,10	13,100	15,000	X	45	18.07
CHLOROACETOPHENONE, 2-	532-27-4	[0.00000 857] [Ir]		[0.000008 57] I 0.00003		76		1,100	3				247	4.50
CHLOROANILINE, P-	106-47-8	0.004 I	0.2 P	[0.004] [Ir]		460		3,900	1				232	
CHLOROBENZENE	108-90-7	0.02 I		[0.00571] [H] 0.05 P		200	X	490	3	13.100	15.000	X	132	0.84
CHLOROBENZILATE	510-15-6	0.02 I	[0.27] 0.11 [H] C	[0.02] [Ir]	[0.273] [H] 0.000031 C	2600		13	4			[X]	415	3.60
CHLOROBUTANE, 1-	109-69-3	0.4 [H] P				580	X	680	1,2,3,4	13,200	15,000	X	[78.5] 79	
CHLORODIBROMOMETHANE	124-48-1	0.02 I	0.084 I	[0.02] [Ir]	[0.0945] 0.000027 C	83	X	4,200	4,6,7,9	13,100	15,100	X	116	1.39
CHLORODIFLUOROMETHANE	75-45-6			[14] 50 I		59	X	2,899	4	13,200	15,000	X	[-40.8] -41	
CHLOROETHANE	75-00-3	0.4 [Ir] N	0.0029 N	[2.86] 10 I	[0.0029] [N]	42	X	5,700	1	13,100	15,000	X	12	4.50
CHLOROFORM	67-66-3	0.01 I	[0.0061] [I]	[0.00009] [N] 0.098 D	[0.0805] 0.000023 I	56	X	8,000	1,2,3	13,100	15,000	X	61	0.01
CHLORONAPHTHALENE, 2-	91-58-7	0.08 I		[0.08] [Ir]		8,500		11.7	1				256	
CHLORONITROBENZENE, P-	100-00-5	0.001 P	[0.018] [H] 0.0063 P	[0.00017] 0.0006 P		480		220	1				242	
CHLOROPHENOL, 2-	95-57-8	0.005 I		[0.005] [Ir]		400	X	24,000	1,3,4	12,900	14,900	X	175	
CHLOROPRENE	126-99-8	0.02 H		[0.002] 0.007 H		50	X	1,736	9	13,100	15,000	X	59	0.69
CHLOROPROPANE, 2-	75-29-6			[0.0286] 0.1 H		260	X	3,100	1,3,5	13,200	15,000	X	[47.2] 47	
CHLOROTHALONIL	1897-45-6	0.015 I		[0.011] [H] 0.0031 C	[0.0031] 0.0000008 9 C	980		0.6	2				350	
CHLOROTOLUENE, O-	95-49-8	0.02 I				760	X	422	14,15	13,100	15,000	X	[158.97] 159	
CHLOROTOLUENE, P-	106-43-4	0.07 P				375	X	106	12	13.000	14.900	X	162	

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CHLORPYRIFOS	2921-88-2	0.003 I		[0.003] [Ir]		4,600		1.12	2,4,6,7				[200] 377	
CHLORSULFURON	64902-72-3	0.05 I				11		192	2,5,6,8,9				[152] 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		0.0073 N		[0.0031] [T] 0.000011 C	490,000		0.0019	1				448	[0.126] 0.13
CRESOL(S)	1319-77-3	0.005 S		0.06 C		25	X	20,000	2	13,000	14,900	X	139	5.16
CRESOL, 4,6-DINITRO-O-	534-52-1	0.0001 P				257		150	4				312	6.02
CRESOL, O- (METHYLPHENOL, 2-)	95-48-7	0.05 I				[97] 22	X	2,500	3,5,6	13,000	14,900	[X]	191	18.07
CRESOL, M (METHYLPHENOL, 3-)	108-39-4	0.05 I				35		2,500	2			X	202	5.16
CRESOL, P (METHYLPHENOL, 4-)	106-44-5	0.005 H				49		22,000	6				202	9.03
CRESOL, P-CHLORO-M-	59-50-7	0.005 S				780		3,846	2				235	
CROTONALDEHYDE	4170-30-3		1.9 S		[1.9] [Sr]	5.6	X	180,000	3	13,000	14,900	X	104	18.07
CROTONALDEHYDE, TRANS-	123-73-9		1.9 H		[1.9] [Hr]	6.1	X	156,000	1	13,100	15,100	X	104	18.07
CUMENE (ISOPROPYL BENZENE)	98-82-8	0.1 I		[0.11] 0.4 I		2,800	X	50	1,5,6	13,100	15,100	X	152	15.81
CYANAZINE	21725-46-2	0.002 M	0.84 H			199		171	2,5				369	
CYCLOHEXANE	110-82-7			6 I		479	X	55	1,2,4,5,6	13,100	15,100	X	81	
CYCLOHEXANONE	108-94-1	5 I		[5] [Ir]		66	X	36,500	1,2,4,5	13,000	14,900	X	157	
CYFLUTHRIN	68359-37-5	0.025 I				130,000	[X]	0.001	2	[13,000]	[15,000]	[X]	448	
CYROMAZINE	66215-27-8	0.0075 I				1,200		11,000	12				222	
DDD, 4,4'-	72-54-8	0.002 P	0.24 I		[0.2415] 0.000069 C	44,000		0.16	5,6,7				[193] 350	0.02
DDE, 4,4'-	72-55-9		0.34 I		[0.34] 0.000097 C	87,000		0.04	5				348	0.02
DDT, 4,4'-	50-29-3	0.0005 I	0.34 I	[0.0005] [Ir]	[0.34] 0.000097 I	240,000		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	[13,000]	[14,900]	X	214	4.50
DIALATE	2303-16-4		0.061 H		[0.061] [Hr]	190	[X]	40	2,4,6,8	[12,900]	[14,900]	X	[150] 328	1.39
DIAMINOTOLUENE, 2,4-	95-80-7		[3.2] 3.8 [H] C		[4] 0.0011 C	36		7,470	4				292	0.69
DIAZINON	333-41-5	[0.0009] [H] 0.0007 D		[0.0009] [Hr]		500		50	2,4,6,8			X	306	
DIBENZO[A,H]ANTHRACENE	53-70-3		7.3 N		[3.1] [T] 0.0012 C	1,800,000		0.0006	1,5,6				524	0.13

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DIBENZOFURAN	132-64-9	0.001 P				10,233		4.48	1.6,7,9				287	7.23
DIBROMO-3-CHLOROPROPANE, 1,2-	96-12-8	[0.00005 71] [Ir] 0.0002 P	[1.4] 0.8 [H]	[0.000057 1] 0.0002 I	[0.00242] [H] 0.006 P	140	X	1,000	4	13,000	15,000	X	196	0.69
DIBROMOBENZENE, 1,4-	106-37-6	0.01 I				1,600		20	1				[220.4] 220	
DIBROMOETHANE, 1,2- (ETHYLENE DIBROMIDE)	106-93-4	[0.00005 [Hr] 71] 0.009 I	[85] 2 I	[0.000057 [H] 1] 0.009 I	[0.77] 0.0006 I	54	X	4,150	1,2,3,5	13,100	15,100	X	131	2.11
DIBROMOMETHANE	74-95-3	0.01 H		[0.01] [Hr]		110	X	11,400	1	13,100	15,100	X	96	4.50
DIBUTYL PHTHALATE, N-	84-74-2	0.1 I		[0.1] [Ir]		1,600		400	1,2,3			X	340	11.00
DICAMBA	1918-00-9	0.03 I				0.27		5.600	4.5,6,8,10				329	
DICHLOROACETIC ACID	76-43-6	0.004 I				8.1	X	1,000,000	1	12,900	14,900	X	194	
DICHLORO-2-BUTENE, 1,4-	764-41-0				[9.3] [H] 0.0042 P	180	X	850	9	13,100	15,000	X	156	
DICHLORO-2-BUTENE, TRANS-1,4-	110-57-6				0.0042 S	215	X	850	9	12,900	14,800	X	155	
DICHLOROBENZENE, 1,2-	95-50-1	0.09 I		[0.0571] 0.2 H		350	X	147	1,4,5,6,7	13,100	15,100	X	180	0.69
DICHLOROBENZENE, 1,3-	541-73-1	[0.03] 0.003 N				360	X	106	1	13,100	15,100	X	173	0.69
DICHLOROBENZENE, P-	106-46-7	[0.03] [N] 0.07 D	[0.024] [H] 0.0054 C	[0.229] 0.8 I	[0.022] [N] 0.000011 C	510	X	82.9	1	12,900	14,900		174	0.69
DICHLOROBENZIDINE, 3,3'-	91-94-1		0.45 I		[1.19] 0.00034 C	22,000		3.11	4,5,6				368	0.69
DICHLORODIFLUOROMETHANE (FREON 12)	75-71-8	0.2 I		[0.0571] 0.2 H		360	X	280	1	13,200	15,000	X	-30	0.69
DICHLOROETHANE, 1,1-	75-34-3	[0.1] 0.2 [H] P	0.0057 C	[0.143] 0.5 H	[0.0056] 0.0000016 C	52	X	5,000	2	13,100	15,000	X	57	0.16
DICHLOROETHANE, 1,2-	107-06-2	[0.03] [N] 0.02 P	0.091 I	[0.23] 2.4 D	[0.091] 0.000026 I	38	X	8,412	1,2,3,4	13,100	15,000	X	83	[0.69] 0.07
DICHLOROETHYLENE, 1,1-	75-35-4	[0.009] 0.05 I	[0.6] [I]	[0.009] 0.2 [Ir] I	[0.175] [I]	65	X	2,500	1,4,5	13,100	15,000	X	32	0.19
DICHLOROETHYLENE, CIS-1,2-	156-59-2	0.01 [I] P		[0.01] [Ir]		49	X	3,500	1	13,100	15,000	X	60	0.01
DICHLOROETHYLENE, TRANS-1,2-	156-60-5	0.02 I		[0.02] 0.06 [Ir] P		47	X	6,300	1	13,100	15,000	X	48	0.01

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Regulated Substance	CAS	RfDo (mg/kg-d)	CSFo (mg/kg-d) <sup>-1</sup>	[RfDi (mg/kg-d)] RfC (mg/m <sup>3</sup> )	[CSFi (mg/kg-d)-1] IUR (µg/m <sup>3</sup> ) <sup>-1</sup>	Koc (L/KG)	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> )
DICHLOROMETHANE (METHYLENE CHLORIDE)	75-09-2	0.06 I	0.0075 I	[0.8571] 1 <sup>[H]</sup> <sub>D</sub>	<sup>[0.00165]</sup> 0.000004 7 I	16	X	20,000	1,2,3	13100	15,000	X	40	4.50
DICHLOROPHENOL, 2,4-	120-83-2	0.003 I		[0.003] [Ir]		160		4,500	1				210	5.88
DICHLOROPHENOXYACETIC ACID, 2,4-(2,4-D)	94-75-7	0.01 I		[0.01] [Ir]		59		677	4,5,6,7,10				215	1.39
DICHLOROPROPANE, 1,2-	78-87-5	0.09 D	<sup>[0.068]</sup> 0.036 C	[0.0011] I 0.004	<sup>[0.036]</sup> 0.00001 C	47	X	2,700	1,3,4	13,100	15,000	X	96	0.10
DICHLOROPROPENE, 1,3-	542-75-6	0.03 I	0.1 I	[0.0057] I 0.02	<sup>[0.014]</sup> 0.000004 I	27	X	2,700	6	13,100	15,000	X	108	22.38
DICHLOROPROPIONIC ACID, 2,2-(DALAPON)	75-99-0	0.03 I		[0.03] [Ir]		62	X	500,000	5	13,000	14,900	X	190	2.11
DICHLORVOS	62-73-7	0.0005 I	0.29 I	[0.000143] I 0.0005	<sup>[0.291]</sup> 0.000083 C	50		10,000	2,4,5			X	[140] 234	
DICYCLOPENTADIENE	77-73-6	<sup>[0.03]</sup> 0.008 <sup>[H]</sup> <sub>P</sub>		[0.000057] <sup>[H]</sup> 1) 0.007 <sub>P</sub>		810	X	40	5	13,000	14,900	[X]	167	
DIELDRIN	60-57-1	0.00005 I	16 I	[0.00005] [Ir]	<sup>[16.1]</sup> 0.0046 I	11,000		0.17	4,5,6			[X]	385	0.12
DIETHANOLAMINE	111-42-2			0.003 C		4		1,000,000	2,3,9			X	269	
DIETHYL PHTHALATE	84-66-2	0.8 I		[0.8] [Ir]		81		1,080	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	160,000	9	13,000	14,900	X	190	
DIMETHOATE	60-51-5	0.0002 I		[0.0002] [Ir]		110		25,000	4				[200] 361	2.26
DIMETHOXYBENZIDINE, 3,3-	119-90-4		0.014 H			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		<sup>[4.55]</sup> 0.0013 C	1,000		13.6	7				[200] 335	4.50
DIMETHYLANILINE, N,N-	121-69-7	0.002 I				180	X	1,200	5,6,7,9	13,000	14,900	X	192	0.69
DIMETHYLBENZIDINE, 3,3-	119-93-7		[9.2] 11 H		[9.2] [Hr]	22,000		1,300	10			[X]	300	18.07
DIMETHYL METHYLPHOSPHONATE	756-79-6	0.06 P	0.0017 P			5	X	1,000,000	14	13,000	14,900	X	181	
DIMETHYLPHENOL, 2,4-	105-67-9	0.02 I		[0.02] [Ir]		130		7,869	1,4,6,7			X	211	18.07
DINITROBENZENE, 1,3-	99-65-0	0.0001 I		[0.0001] [Ir]		150		523	3,5,6,7				[300] 291	0.69
DINITROPHENOL, 2,4-	51-28-5	0.002 I		[0.002] [Ir]		0.79		5,600	2,4,5,6,7				332	0.48

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DINITROTOLUENE, 2,4-	121-14-2	0.002 I	0.31 C	[0.002] [Ir]	<sup>[0.31]</sup> <u>0.000089</u> C	51		270	4,5,6				300	0.69
DINITROTOLUENE, 2,6- (2,6-DNT)	606-20-2	0.001 <sup>[H]</sup> <sub>P</sub>		[0.001] [Hr]		74		200	6				300	0.69
DINOSEB	88-85-7	0.001 I		[0.001] [Ir]		120		50	5				223	1.03
DIOXANE, 1,4-	123-91-1	<u>0.1</u> <sub>D</sub>	0.011 I	<u>3.6</u> <sub>D</sub>	<sup>[0.027]</sup> <u>0.0000077</u> C	7.8	X	1,000,000	5	13,000	14,900	X	101	0.69
DIPHENAMID	957-51-7	0.03 I				200		260	5				210	
DIPHENYLAMINE	122-39-4	0.025 I		[0.025] [Ir]		190		300	3				302	4.50
DIPHENYLHYDRAZINE, 1,2-	122-66-7		0.8 I		<sup>[0.77]</sup> <u>0.00022</u> I	660		0.252	6				309	0.69
DIQUAT	85-00-7	0.0022 I		[0.0022] [Ir]		2.6		700,000	5				355	
DISULFOTON	298-04-4	0.00004 I		[0.00004] [Ir]		1,000	[X]	25	4,5,6	[13,400]	[15,400]	X	[133] <u>332</u>	6.02
DITHIANE, 1,4-	<del>505-29-3</del>	<u>0.01</u> I				<u>22.7</u>	X	<u>3,000</u>	<u>15</u>	<u>13,000</u>	<u>14,900</u>		<u>199</u>	
DIURON	330-54-1	0.002 I		[0.002] [Ir]		300		42	2,4,5				<u>354</u>	
ENDOSULFAN	115-29-7	0.006 I		[0.006] [Ir]		2,000		0.48	4				[106] <u>401</u>	2.78
ENDOSULFAN I (ALPHA)	959-98-8	0.006 S		[0.006] [Sr]		2,000		0.5	6				[200] <u>401</u>	
ENDOSULFAN II (BETA)	33213-65-9	0.006 S		[0.006] [Sr]		2,300		0.45	6				390	
ENDOSULFAN SULFATE	1031-07-8	0.006 S		[0.006] [Sr]		2,300		0.117	7,9				[200] <u>409</u>	
ENDOTHALL	145-73-3	0.02 I		[0.02] [Ir]		120		100,000	2				[200] <u>350</u>	
ENDRIN	72-20-8	0.0003 I		[0.0003] [Ir]		11,000		0.23	4,6,7,9				245	
EPICHLOROHYDRIN	106-89-8	<sup>[0.002]</sup> <u>0.006</u> <sup>[H]</sup> <sub>P</sub>	0.0099 I	<sup>[0.000286]</sup> <u>0.001</u> I	<sup>[0.0042]</sup> <u>0.0000012</u> I	35	X	65,800	1,3,4	13,000	14,900	X	116	4.50
ETHEPHON	16672-87-0	0.005 I				2		1,240,000	12				201	
ETHION	563-12-2	0.0005 I		[0.0005] [Ir]		8,700		0.85	4,6,9,10			X	[200] <u>415</u>	
ETHOXYETHANOL, 2- (EGEE)	110-80-5	0.4 H		[0.057] <u>0.2</u> I		12	X	1,000,000	2	13,200	15,000	X	136	4.50
ETHYL ACETATE	141-78-6	0.9 I		[0.9] [Ir]		59	X	80,800	1,2,3,4,5,6	13,100	15,000	X	77	18.07
ETHYL ACRYLATE	140-88-5		0.048 H		[0.048] [Hr]	110	X	15,000	1,2,6	13,100	15,100	X	100	18.07
ETHYL BENZENE	100-41-4	0.1 I		[0.286] 1 I		220	X	161	1,3,4	13,100	15,000	X	136	1.11
ETHYL DIPROPYLTHIOCARBAMATE, S- (EPTC)	759-94-4	0.025 I				240	X	365	2	12,900	14,900	X	127	
ETHYL ETHER	60-29-7	0.2 I		[0.2] [Ir]		68	X	60,400	1	13,100	15,100	X	35	

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ETHYL METHACRYLATE	97-63-2	0.09 H		[0.09] [Hr]		22	X	4635.5	9,10	13,100	15,000	X	117	
ETHYLENE GLYCOL	107-21-1	2 I		[2] 0.4 [Ir] C		4.4	X	1,000,000	2	13,100	15,100	X	198	10.54
ETHYLENE THIOUREA (ETU)	96-45-7	0.00008 I	[0.11] [H] 0.045 C	[0.00008] [Ir]	[0.045] 0.000013 C	0.23		20,000	2				347	4.50
ETHYLP-NITROPHENYL PHENYLPHOSPHOROTHIOATE	2104-64-5	0.00001 I				1,200		3.1	4				215	
FENAMIPHOS	22224-92-6	0.00025 I		[0.00025] [Ir]		300		329	2				[200] 390	
FENVALERATE (PYDRIN)	51630-58-1	0.025 I				4,400		0.085	5	[20,500]	[25,800]	X	300	
FLUOMETURON	2164-17-2	0.013 I				68		97.5	2,5,6,8				318	
FLUORANTHENE	206-44-0	0.04 I		[0.04] [Ir]		49,000		0.26	1,5,6				375	0.29
FLUORENE	86-73-7	0.04 I		[0.04] [Ir]		7,900		1.9	1				298	2.11
FLUOROTRICHLOROMETHANE (FREON 11)	75-69-4	0.3 I		[0.2] 0.7 H		130	X	1,090	1,4,5,6	13,100	15,000	X	24	0.35
FONOFOS	944-22-9	0.002 I		[0.002] [Ir]		1,100	[X]	13	5,6,8	[13,400]	[15,500]	X	[130] 324	
FORMALDEHYDE	50-00-0	0.2 I	[0.0455] [Ir]	[0.0011] 0.0098 D	[0.0455] 0.000013 I	3.6	X	55,000	1	13,100	15,100	X	-21	18.07
FORMIC ACID	64-18-6	2 H		[2] 0.003 [Hr] P		0.54	X	1,000,000	2	13,000	14,900	X	101	18.07
FOSETYL-AL	39148-24-8	3 I				310		120,000	2				464	
FURAN	110-00-9	0.001 I				130	X	10,000	1	13,100	15,000	X	[31.36] 31	2.25
FURFURAL	98-01-1	0.003 I		[0.0143] 0.05 H		6.3	X	91,000	1,2,3	13,000	14,900	X	162	
GLYPHOSATE	1071-83-6	0.1 I		[0.1] [Ir]		3,500		12,000	1,5,6				[186] 417	
HEPTACHLOR	76-44-8	0.0005 I	4.5 I	[0.0005] [Ir]	[4.55] 0.0013 I	6,800		0.18	4,6,7				310	46.84
HEPTACHLOR EPOXIDE	1024-57-3	0.000013 I	9.1 I	[0.000013] [Ir]	[9.1] 0.0026 I	21,000		0.311	4,6,7,9				[200] 341	0.23
HEXACHLOROBENZENE	118-74-1	0.0008 I	1.6 I	[0.0008] [Ir]	[1.61] 0.00046 I	3,800		0.006	1,4,5				319	0.06
HEXACHLOROBUTADIENE	87-68-3	[0.0002] [H] 0.001 P	0.078 I	[0.0002] [Hr]	[0.077] 0.000022 I	4,700		2.89	4,5,6,7			X	215	0.69
HEXACHLOROCYCLOPENTADIENE	77-47-4	0.006 I		[0.00006] [H] 0.0002 I		7,200		1.8	5,6,7			X	239	4.50
HEXACHLOROETHANE	67-72-1	0.001 I	0.014 I	[0.001] [Ir]	[0.014] 0.000004 I	2,200	X	50	1	13,000	15,000		187	0.69

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**TABLE 5 – PHYSICAL AND TOXICOLOGICAL PROPERTIES**  
**A. ORGANIC REGULATED SUBSTANCES**

Regulated Substance	CAS	RfDo (mg/kg-d)	CSFo (mg/kg-d) <sup>-1</sup>	[RfDi (mg/kg-d)] RfC (mg/m <sup>3</sup> )	[CSFi (mg/kg-d)-1] IUR (µg/m <sup>3</sup> ) <sup>-1</sup>	Koc (L/KG)	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> )
HEXANE	110-54-3	0.06 H		[0.0571] 0.7 I		3,600	X	9.5	1,5,6	13,100	15,000	X	69	
HEXAZINONE	51235-04-2	0.033 I				41		330,000	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	0.0002 C	[17] 0.0049 I	0.0053	X	1,000,000	2	13,000	15,000	X	[113.5] 114	18.07
HYDROQUINONE	123-31-9	0.04 [H] P	0.056 P	[0.04] [Hr]		10		70,000	2,3,5				285	18.07
INDENO[1,2,3-CD]PYRENE	193-39-5		0.73 N		[0.31] [T] 0.00011 C	31,000,000		0.062	5				536	0.17
IPRODIONE	36734-19-7	0.04 I				1,100		13	2				545	
ISOBUTYL ALCOHOL	78-83-1	0.3 I		[0.3] [Ir]		60	X	81,000	1,2,3,4,5	13,000	14,900	X	108	17.57
ISOPHORONE	78-59-1	0.2 I	0.00095 I	[0.2] [Ir] C	[0.00095] [Ir]	31		12,000	2,4,5			X	215	4.50
ISOPROPYL METHYLPHOSPHONATE	1832-54-8	0.1 I				1.64		50,000	13			X	230	
KEPONE	143-50-0	0.0005 D	16 C		[16.1] 0.0046 C	55,000		7.6	4				350	0.17
MALATHION	121-75-5	0.02 I		[0.02] [Ir]		1,300	[X]	143	4	[14,000]	[16,300]	X	[157] 351	2.46
MALEIC HYDRAZIDE	123-33-1	0.5 I		[0.5] [Ir]		2.8		6,000	4				260	
MANEB	12427-38-2	0.005 I				1		23	9,13				351	
MERPHOS OXIDE	78-48-8	0.00003 I				53,000	[X]	2.3	8,10,12	[13,100]	[15,100]	X	[150] 392	
METHACRYLONITRILE	126-98-7	0.0001 I		[0.0002] 0.0007 H		21	X	25,700	1	13,100	15,100	X	90	
METHAMIDOPHOS	10265-92-6	0.00005 I				5		2,000,000	5				223	
METHANOL	67-56-1	0.5 I		[0.5] [Ir] C		2.8	X	1,000,000	2	13,100	15,100	X	65	36.14
METHOMYL	16752-77-5	0.025 I		[0.025] [Ir]		20		58,000	2				[144] 228	
METHOXYCHLOR	72-43-5	0.005 I		[0.005] [Ir]		63,000		0.045	4,5,6				346	0.69
METHOXYETHANOL, 2-	109-86-4	[0.001] [H] 0.003 P		[0.00571] 0.02 I			X	1,000,000	2	13,100	15,000	X	[124.3] 124	4.50
METHYL ACETATE	79-20-9	1 H				30	X	243,500	4,5,6	13,100	15,100	X	[56.9] 57	

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METHYL ACRYLATE	96-33-3	0.03 H				55	X	52,000	1,2,5	13,100	15,100	X	70	18.07
METHYL CHLORIDE	74-87-3	0.004 M	0.013 H	[0.029] [D] 0.09 I	[0.0063] 0.0000018 H	6	X	6,180	1,2,3,4	13,200	15,000	X	-24	4.50
METHYL ETHYL KETONE	78-93-3	0.6 I		[0.286] 5 I		32	X	275,000	1,2,3,4,5	13,100	15,100	X	80	2.57
METHYL ISOBUTYL KETONE	108-10-1	0.08 H		[0.023] 3 [H] I		17	X	19,550	1,2,4,5	13,100	15,100	X	117	18.07
METHYL ISOCYANATE	624-83-9			0.001 C		10	X	100,000	7	13,000	15,000	X	40	
METHYL N-BUTYL KETONE (2-HEXANONE)	591-78-6	0.04 N		0.005 N		54	X	17,500	1	13,100	15,100	X	128	
METHYL METHACRYLATE	80-62-6	1.4 I		[0.2] 0.7 I		10	X	15,600	1	13,100	15,100	X	100	4.50
METHYL METHANESULFONATE	66-27-3		0.099 C		[0.098] 0.000028 C	5.2		200,000	2			X	203	
METHYL PARATHION	298-00-0	0.00025 I		[0.00025] [I]r		790	[X]	25	4,5,6	[13,500]	[15,600]	[X]	[133] 348	3.61
METHYL STYRENE (MIXED ISOMERS)	25013-15-4	0.006 H		[0.011] 0.04 H		2,200	X	89	9	13,100	15,000	X	163	
METHYL TERT-BUTYL ETHER (MTBE)	1634-04-4	[0.857] [I]r	0.0018 C	[0.857] 3 I	[0.0018] 0.0000002 C 6	12	X	45,000	1,2,4,6	13,100	15,100	X	55	0.69
METHYLCHLOROPHOXYACETIC ACID (MCPA)	94-74-6	0.0005 I				112		1,000	5,6,8,9				287	1.39
METHYLENE BIS(2-CHLOROANILINE), 4,4'-	101-14-4	[0.0007] [H] 0.002 P	[0.13] 0.1 [H] P	[0.0007] [H]r	[0.13] [H] 0.00043 C	3,000		13.9	10				379	
METHYLNAPHTHALENE, 2-	91-57-6	[0.02] [S] 0.004 I		[0.00086] [I]r 0.003 S		16,000		25	1			[X]	241	
METHYLSTYRENE, ALPHA	98-83-9	0.07 H				660	X	560	9	13,100	15,100	X	[165.4] 165	
METOLACHLOR	51218-45-2	0.15 I				182	X	530	1.5	13,000	15,000	X	100	
METRIBUZIN	21087-64-9	0.025 I				95		1,200	1.5				367	
MONOCHLOROACETIC ACID	79-11-8	0.01 M				0.24	X	858,000	17	13,000	14,900		189	
NAPHTHALENE	91-20-3	0.02 I		[0.00086] 0.003 I		950		30	3				218	0.98
NAPHTHYLAMINE, 1-	134-32-7		1.8 S		[1.8] 0.00051 S	3,200		1,690	2				301	0.69
NAPHTHYLAMINE, 2-	91-59-8		1.8 C		[1.8] 0.00051 C	87		6.4	6				306	0.69
NAPROPAMIDE	15299-99-7	0.1 I				880		70	2				399	
NITROANILINE, M-	99-09-2	[0.00005 71] [S] 0.0003 P	0.021 P	[0.000057 [S] 1] 0.001 P		18		100	3				306	

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NITROANILINE, O-	88-74-4	[0.00005 [Hr] 71] <u>0.003</u> P		[0.000057 [H] 1] <u>0.0001</u> P		27		1,200	6				284	
NITROANILINE, P-	100-01-6	[0.00005 [S] 71] <u>0.004</u> P	<u>0.02</u> P	[0.000057 [S] 1] <u>0.006</u> P		15		800	2				332	
NITROBENZENE	98-95-3	[0.0005] 0.002 I		[0.0006] [H] 0.009 I	<u>0.00004</u> I	130		2,000	2			X	211	0.64
<u>NITROGUANIDINE</u>	<u>556-88-7</u>	<u>0.1</u> I				<u>0.13</u>		<u>4.400</u>	<u>9</u>				<u>231</u>	
NITROPHENOL, 2-	88-75-5	0.008 S		[0.008] [S]		37		2,100	1,2,3,4,5,6				215	9.01
NITROPHENOL, 4-	100-02-7	0.008 N		[0.008] [Nr]		230		16,000	2				279	25.81
NITROPROPANE, 2-	79-46-9	[0.00571] [Ir]	[9.4] [Hr]	[0.00571] I <u>0.02</u>	[9.4] H <u>0.0027</u>	20	X	16,700	1,3,4,5	13,000	14,900	X	120	0.69
NITROSODIETHYLAMINE, N-	55-18-5		150 I		[151] 0.043 I	26	X	93,000	10	13,000	14,900	X	176	0.69
NITROSODIMETHYLAMINE, N-	62-75-9	<u>0.000008</u> P	51 I		[49] <u>0.014</u> I	8.5	X	1,000,000	2	13,000	14,900	X	154	0.69
NITROSO-DI-N-BUTYLAMINE, N-	924-16-3		5.4 I		[5.6] <u>0.016</u> I	450		1,200	0,13			X	235	0.69
NITROSODI-N-PROPYLAMINE, N-	621-64-7	[0.095] [D]	7 I	[0.095] [Dr]	[7] <u>0.002</u> C	11		9,900	6			X	206	0.69
NITROSODIPHENYLAMINE, N-	86-30-6	<u>0.02</u> P	0.0049 I		[0.0091] 0.0000026 C	580		35	1				269	3.72
NITROSO-N-ETHYLUREA, N-	759-73-9		[140] <u>27</u> [H] C		[27] 0.0077 C	2		13,000	9				[125] <u>223</u>	1,734.48
OCTYL PHTHALATE, DI-N-	117-84-0	[0.02] [H] 0.04 P		[0.02] [Hr]		980,000,000		3	5			X	234	0.69
OXAMYL (VYDATE)	23135-22-0	0.025 I		[0.025] [Ir]		7.1		280,000	2				[101] <u>334</u>	
<u>PARAQUAT</u>	<u>1910-42-5</u>	<u>0.0045</u> I				<u>16,200</u>		<u>660,000</u>	<u>6,8</u>				<u>352</u>	
PARATHION	56-38-2	0.006 H		[0.006] [Hr]		2,300		20	2,4,5,6,7			X	375	
PCB-1016 (AROCLOR)	12674-11-2	0.00007 I	[0.09] <u>0.07</u> [N] I	[0.00007] [Ir]	[0.09] [Nr] 0.00002 I	110,000		0.25	5			X	[340] <u>325</u>	
PCB-1221 (AROCLOR)	11104-28-2		[0.5] <u>2</u> [S] I		[0.5] [S] 0.00057 I	1,900		0.59	5			X	[340] <u>275</u>	
PCB-1232 (AROCLOR)	11141-16-5		[0.5] <u>2</u> [S] I		[0.5] [S] 0.00057 I	1,500		1.45	7			X	[340] <u>290</u>	

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PCB-1242 (AROCLOR)	53469-21-9		[0.5] <u>2</u> [N] I		[0.5] [Nr] <u>0.00057</u> I	48,000		0.1	5			X	[340] <u>325</u>	
PCB-1248 (AROCLOR)	12672-29-6		[1.8] <u>2</u> [S] I		[1.8] [S] <u>0.00057</u> I	190,000		0.054	7,9,11			X	340	
PCB-1254 (AROCLOR)	11097-69-1	0.00002 I	[1.8] <u>2</u> [N] I	[0.00002] [Ir]	[1.8] [Nr] <u>0.00057</u> I	810,000		0.057	5			X	[340] <u>365</u>	
PCB-1260 (AROCLOR)	11096-82-5		[0.6] <u>2</u> [N] I		[0.6] [Nr] <u>0.00057</u> I	1,800,000		0.08	5				385	
PEBULATE	1114-71-2	0.05 H				630	[X]	92	5	[13,000]	[14,900]	X	[142] <u>303</u>	
PENTACHLOROBENZENE	608-93-5	0.0008 I		[0.0008] [Ir]		32,000		0.74	1,5,6,7				277	0.37
PENTACHLOROETHANE	<u>76-01-7</u>		<u>0.09</u> P			<u>1,905</u>	X	<u>480</u>	<u>1.3</u>	<u>13,100</u>	<u>15,100</u>	X	<u>160</u>	
PENTACHLORONITROBENZENE	82-68-8	0.003 I	0.26 H	[0.003] [Ir]	[0.26] [Hr]	7,900		0.44	4,6,8				328	0.36
PENTACHLOROPHENOL	87-86-5	0.03 I	0.12 I	[0.03] [Ir]	[0.12] [Ir] <u>0.0000046</u> C	20,000		14	1,2,4,5				310	0.17
PHENACETIN	62-44-2		0.0022 C		[0.0022] <u>0.0000006</u> C 3	110		763	2,3,9				[200] <u>341</u>	4.50
PHENANTHRENE	85-01-8	0.3 S		[0.3] [Sr]		38,000		1.1	1,4,5				341	0.63
PHENOL	108-95-2	[0.6] <u>0.3</u> I		[0.6] <u>0.2</u> [Ir] C		22	X	84,300	1,2,3,4	<u>13,000</u>	<u>14,900</u>	[X]	182	36.14
PHENYL MERCAPTAN	<u>108-98-5</u>	<u>0.00001</u> H				<u>562</u>	X	<u>653</u>	<u>5.9</u>	<u>13,000</u>	<u>15,000</u>	X	<u>170</u>	
PHENYLENEDIAMINE, M-	108-45-2	0.006 I		[0.006] [Ir]		12		351,000	3				286	4.50
PHENYLPHENOL, 2-	90-43-7		[0.00194] <u>0.0019</u> H			5,700		700	5				280	18.07
PHORATE	298-02-2	0.0002 H		[0.0002] [Hr]		810	[X]	50	2	[13,100]	[15,100]	X	[118] <u>319</u>	
PHTHALIC ANHYDRIDE	85-44-9	2 I		[0.0343] [H] <u>0.02</u> C		79		6,170	2				285	13,490.40
PICLORAM	1918-02-1	0.07 I				15		430	2				<u>373</u>	
POLYCHLORINATED BIPHENYLS (AROCLORS) (PCBS)	1336-36-3		2 I		[2] <u>0.00057</u> I			0.0505	10,13				<u>360</u>	
PROMETON	<u>1610-18-0</u>	<u>0.015</u> I				<u>346</u>		<u>750</u>	<u>2.5</u>				<u>347</u>	
PRONAMIDE	23950-58-5	0.075 I		[0.075] [Ir]		200		15	2				321	
PROPANIL	709-98-8	0.005 I				160		225	2				<u>355</u>	

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PROPANOL, 2- (ISOPROPYL ALCOHOL)	67-63-0			<u>7</u> <u>C</u>		25	X	1,000,000	2	13,000	14,900	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	
PROPYLBENZENE, N-	103-65-1	0.04 N				720	X	52	6	13,100	15,100	X	[159.2] 159	
PROPYLENE OXIDE	75-56-9	[0.00857] [Ir]	0.24 I	[0.00857] 0.03 I	[0.013] 0.0000037 I	25	X	405,000	1	13,100	15,000	X	34	
PYRENE	129-00-0	0.03 I		[0.03] [Ir]		68,000		0.132	1				393	0.07
PYRIDINE	110-86-1	0.001 I		[0.001] [Ir]		0.0066	X	1,000,000	2	13,100	15,000	X	115	18.07
QUINOLINE	91-22-5		[12] <u>3</u> <sup>[H]</sup> <u>I</u>			1,300		60,000	1,3,5		[14,900]	X	[237.7] 238	12.65
QUIZALOFOP (ASSURE)	76578-14-8	0.009 I				580		0.3	2				220	
RDX	121-82-4	0.003 I	0.11 I		0.0000031 I	70		59.9	1.9				353	
RESORCINOL	108-46-3	2 TE				2		717,000					280	
RONNEL	299-84-3	0.05 H				580		40	2				[151] 349	
SIMAZINE	122-34-9	0.005 I	0.12 H	[0.005] [Ir]	[0.12] [Hr]	110		5	5				225	
STRYCHNINE	57-24-9	0.0003 I		[0.0003] [Ir]		280		143	5				270	4.50
STYRENE	100-42-5	0.2 I		[0.286] <u>1</u> I		910	X	300	5	13,100	15,100	X	145	1.20
TEBUTHIURON	34014-18-1	0.07 I				620		2,500	2				394	
TERBACIL	5902-51-2	0.013 I				53		710	2				396	
TERBUFOS	13071-79-9	0.000025 H		[0.000025] [Hr]		510	[X]	5	6	[13,000]	[15,000]	X	[69] 332	
TETRACHLOROBENZENE, 1,2,4,5-	95-94-3	0.0003 I		[0.0003] [Ir]		1,800		0.583	1,5,6,7				245	0.69
TETRACHLORODIBENZO-P-DIOXIN, 2,3,7,8-(TCDD)	1746-01-6	0.00000001 D	[150000] [H] 130000 C	0.0000000 4 C	[150000] [H] 38 C	4,300,000		0.0000193	6				412	0.21
TETRACHLOROETHANE, 1,1,1,2-	630-20-6	0.03 I	0.026 I	[0.03] [Ir]	[0.0259] 0.0000074 I	980	X	1100	1	13,000	14,600	X	[130.5] 131	3.79
TETRACHLOROETHANE, 1,1,2,2-	79-34-5	[0.06] [N] 0.004 P	0.2 I	[0.06] [Nr]	[0.203] 0.000058 I	79	X	2,860	2	13,100	15,100	X	147	0.56
TETRACHLOROETHYLENE (PCE)	127-18-4	0.01 I	0.052 N	[0.14] 0.5 N	[0.00203] 0.0000005 N 8	300	X	162	1,2,3,4,5	13,100	15,000	X	121	0.03
TETRACHLOROPHENOL, 2,3,4,6-	58-90-2	0.03 I		[0.03] [Ir]		6,200		183	6				[150] 288	0.69

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**TABLE 5 – PHYSICAL AND TOXICOLOGICAL PROPERTIES**  
**A. ORGANIC REGULATED SUBSTANCES**

Regulated Substance	CAS	RfDo (mg/kg-d)	CSFo (mg/kg-d) <sup>-1</sup>	[RfDi (mg/kg-d)] RfC (mg/m <sup>3</sup> )	[CSFi (mg/kg-d)-1] IUR (µg/m <sup>3</sup> ) <sup>-1</sup>	Koc (L/KG)	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> )
TETRAETHYL LEAD	78-00-2	0.000000 1 I		[0.000000 1] [Ir]		4,900		0.8	5			X	[200] 202	4.50
TETRAETHYLDITHIOPYROPHOSPHATE	3689-24-5	0.0005 I		[0.0005] [Ir]		550	[X]	25	2	[13,000]	[14,900]	X	[136] 349	
TETRAHYDROFURAN	109-99-9	0.2 N	0.0076 N	0.3 N	0.0000019 4 N	43	X	300,000	1.6,7	13,100	15,100	X	66	
THIOFANOX	39196-18-4	0.0003 H				0.022		5,200	9				280	
THIRAM	137-26-8	0.005 I		[0.005] [Ir]		1,000		30	4				[200] 339	
TOLUENE	108-88-3	[0.2] 0.08 I		[0.114] 5 I		130	X	532.4	1,2,3,4	13,100	15,000	X	111	9.01
TOLUIDINE, M-	108-44-1		[0.24] 0.18 S		[0.24] [Sr] 0.000051 S	140		15,030	6			X	203	
TOLUIDINE, O-	95-53-4		[0.24] 0.18 [H] C		[0.24] [Hr] 0.000051 C	410		15,000	1,3,5			X	200	18.07
TOLUIDINE, P-	106-49-0		0.19 H		[0.19] [Hr]	320		7410	1,2,3				200	
TOXAPHENE	8001-35-2	[0.001] [D]	1.1 I	[0.001] [Dr]	[1.12] 0.00032 I	1,500		3	2,4,5				432	
TRIALATE	2303-17-5	0.013 I				2,000		4	5			X	[117] 343	
TRIBROMOMETHANE (BROMOFORM)	75-25-2	0.02 I	0.0079 I	[0.02] [Ir]	[0.00385] 0.0000011 I	130	X	3,050	1,2,3,4	13,100	15,100	X	149	0.69
TRICHLORO-1,2,2-TRIFLUOROETHANE, 1,1,2-	76-13-1	30 I		[8.57] 30 H		1,200	X	170	1	13,100	15,000	X	[47.7] 48	0.35
TRICHLOROBENZENE, 1,2,4-	120-82-1	0.01 I	0.0036 C	[0.0571] [H] 0.004 P		1,500		44.4	1,4,6,7			X	213	0.69
TRICHLOROBENZENE, 1,3,5-	108-70-3	0.006 M		[0.0571] 0.004 S		3,100		5.8	5				208	
TRICHLOROETHANE, 1,1,1-	71-55-6	[0.28] 2 [N] I		[0.63] 5 [N] I		100	X	1,495	1,4,5,6	13,100	15,000	X	74	0.05
TRICHLOROETHANE, 1,1,2-	79-00-5	0.004 I	0.057 I	[0.004] [Ir]	[0.056] 0.000016 I	76	X	4,420	1	13,100	15,100	X	114	0.03
TRICHLOROETHYLENE (TCE)	79-01-6	0.006 N	0.011 N	[0.143] 0.5 D	[0.00595] 0.0000017 N	93	X	1,100	1	13,100	15,000	X	87	0.02
TRICHLOROPHENOL, 2,4,5-	95-95-4	0.1 I		[0.1] [Ir]		2,400		1,000	1,2,4				246	0.14
TRICHLOROPHENOL, 2,4,6-	88-06-2	[0.0003] [M] 0.001 P	0.011 I	[0.0003] [Mr] I	[0.01085] 0.0000031 I	1,100		850	1,2,4,5				246	0.14
TRICHLOROPHENOXYACETIC ACID, 2,4,5- (2,4,5-T)	93-76-5	0.01 I		[0.01] [Ir]		43		278	2,4,5				279	1.39
TRICHLOROPHENOXYPROPIONIC ACID, 2,4,5- (2,4,5-TP)(SILVEX)	93-72-1	0.008 I		[0.008] [Ir]		1,700		140	2				[200] 353	

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TRICHLOROPROPANE, 1,1,2-	598-77-6	0.005 I				24	X	2,700	14	13,100	15,000	X	117	
TRICHLOROPROPANE, 1,2,3-	96-18-4	0.006 I	7 H	[0.0014] 0.005 N	[7] [Hr]	280	X	1,896	1,4,6	13,100	15,100	X	157	0.35
TRICHLOROPROPENE, 1,2,3-	96-19-5	[0.005] [H] 0.01 P		0.001 P		190	X	2,700	14	13,100	15,000	X	142	
TRIETHYLAMINE	121-44-8			0.007 I		51	X	55,000	1.4	13,100	15,100	X	90	
TRIFLURALIN	1582-09-8	0.0075 I	0.0077 I	[0.0075] [Irr]	[0.0077] [Irr]	720		4	2,5,6,7				[139] 382	
TRIMETHYLBENZENE, 1,3,4- (TRIMETHYLBENZENE, 1,2,4-)	95-63-6	0.05 [N] P		[0.0017] [N] 0.007 P		2,200	X	56	1	13,100	15,000	X	169	4.50
TRIMETHYLBENZENE, 1,3,5-	108-67-8	0.05 N		[0.0017] [N] 0.006 P		660	X	48.9	1	13,100	15,100	X	[164.7] 165	
TRINITROGLYCEROL (NITROGLYCERIN)	55-63-0	0.0001 P	0.017 N				X	1,800	2,3,5	13,000	15,000	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 [I] H		[0.0571] 0.2 I		2.8	X	20,000	1	13,200	15,000	X	73	
VINYL BROMIDE (BROMOETHENE)	593-60-2	[0.00085 7] [Irr]	[0.11] [Hr]	[0.000857] 0.003 I	[0.11] 0.000032 H	150	X	4,180	12	13,100	15,000	X	[15.8] 16	0.09
VINYL CHLORIDE	75-01-4	0.003 I	[1.5] 0.72 I	[0.029] 0.1 I	[0.03] 0.0000044 I	10	X	2,700	1	13,200	15,000	X	-13	0.09
WARFARIN	81-81-2	0.0003 I		[0.0003] [Irr]		910		17	4				356	4.50
XYLENES (TOTAL)	1330-20-7	[2] 0.2 I		[0.12] 0.1 [D] I		350	X	175	13	13,100	15,000	X	140	0.69
ZINEB	12122-67-7	0.05 I				19		10	4				474	

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