

Table 3
Default Parameters for Figures 4, 5, and 7

Symbol	Definition (units)	Receptor	Default	Reference
BW	body weight (kg)	aggregate resident ¹	51.9	Derived from equation using child and adult body weights (See Appendix A)
		child ²	16.8	Derived from NHANES III data (See Appendix A)
		adult/worker	76.1	
IRo	ingestion rate, oral (mg/day)	aggregate resident	120	Derived from equation using child and adult ingestion rates (Technical Report, page 24)
		child	200	USEPA (1996b)
		worker	50	
EF	exposure frequency (days/yr)	aggregate resident	350	USEPA (1996b)
		child	350	
		worker	250	
ED	exposure duration (years)	aggregate resident	30	USEPA (1996b)
		child	6	
		worker	25	
SA	surface area exposed (cm ² /day)	aggregate resident	4810	Derived from NHANES III data using allometric scaling (See Appendix A)
		child	2960	
		worker	3500	
AF	adherence factor (mg/cm ²)	aggregate resident	0.1	RAGS (part E), USEPA 2000 Supplemental Guidance for Dermal Risk Assessment – Interim Guidance
		child	0.2	
		worker	0.2	
AT	averaging time (days) (carcinogens)		25550 (70 years)	RAGS (part A), USEPA 1989a (EPA/540/1-89/002) (AT=ED)
	averaging time (days) (non-carcinogens)	aggregate resident	10950 (30 years)	
		child	2190 (6 years)	
		worker	9125 (25 years)	
IRi	inhalation rate (m ³ /day)	aggregate resident	12.2	Exposure Factors Handbook, USEPA 1997 (See Appendix A)
		child	8.1	
		worker	20	
RBA	relative oral bioavailability (unitless)		1.0 ⁴	USEPA Region 4 Guidance
DA	dermal absorption (unitless) (organics)		0.01	USEPA Region 4 Guidance
	dermal absorption (unitless) (inorganics)		0.001	
VF	volatilization factor (m ³ /kg)		chemical-specific	Soil Screening Guidance, USEPA 1996b (EPA/540/R-95/128) (See Fig. 7)
PEF ³	particulate emission factor (m ³ /kg)		1.24 x 10 ⁹	Soil Screening Guidance, USEPA 1996b (EPA/540/R-95/128) (See Fig. 6)
TR	target cancer risk (unitless)		10 ⁻⁶	Per Section 24-44(2)(b), Code of Miami-Dade County
THI	target hazard index (unitless)		1	Per Section 24-44(2)(b), Code of Miami-Dade County

¹ Aggregate Resident: Age 1 to 31 years.

² Child: Age 1 to 7 years.

³ The default PEF is for 0.5 acre sites with undisturbed soil. Site-specific PEFs must be calculated for sites with contaminated areas which are significantly larger in size or if warranted based on site-specific conditions.

⁴ The RBA is 0.33 for arsenic; for all other contaminants, the RBA is 1.0.

Table 4 - Technical Report
Chemical-Specific Values

Contaminants	CAS#	Values from Reference Sources											Calculated Values ***		
		MP °C	d (g/cm ³)	S (mg/L)	Koc (L/kg)	HLC (atm-m ³ /mol)	Di (cm ² /s)**	Dw (cm ² /s)**	Kd (L/kg)*	Da (cm ² /s)	Resident	Child	Worker		
Acenaphthene	83-32-9	93.4	1.0242	4.240E+00	2.58E+03	1.550E-04	4.210E-02	7.690E-06	1.550E+01	9.169E-07	1.624E+05	7.264E+04	1.483E+05		
Acenaphthylene	208-96-8	92.5	0.8987	1.610E+01	3.10E+03	1.130E-04	4.387E-02	7.530E-06	1.860E+01	5.816E-07	2.039E+05	9.121E+04	1.862E+05		
Acephate	30560-19-1	85.4	1.35	7.300E+05	4.00E+00	5.000E-13	3.072E-02	7.976E-06	2.400E-02	4.083E-07	2.434E+05	1.089E+05	2.222E+05		
Acetone	67-64-1	-94.8	0.7899	1.000E+06	6.00E-01	3.880E-05	1.240E-01	1.140E-05	3.600E-03	1.018E-04	1.541E+04	6.893E+03	1.407E+04		
Acetonitrile	75-05-8	-43.8	0.7857	1.000E+06	4.65E-01	3.460E-05	1.280E-01	1.660E-05	2.790E-03	9.489E-05	1.597E+04	7.141E+03	1.458E+04		
Acetophenone	98-86-2	20	1.0281	6.130E+03	4.10E+01	1.070E-05	6.000E-02	8.730E-06	2.460E-01	4.212E-06	7.578E+04	3.389E+04	6.918E+04		
Acifluorfen, sodium [or Blazer]	62476-58-9	277.47	1.26	2.500E+05	3.13E+03	7.677E-18	1.440E-02	4.480E-06	1.875E+01	1.509E-09	4.004E+06	1.791E+06	3.655E+06		
Acrolein	107-02-8	-87.7	0.84	2.130E+05	1.00E+00	1.220E-04	1.050E-01	1.220E-05	6.000E-03	2.624E-04	9.602E+03	4.294E+03	8.766E+03		
Acrylamide	79-06-1	84.5	1.122	6.400E+05	1.15E-01	1.000E-09	9.700E-02	1.060E-05	6.900E-04	6.704E-07	1.900E+05	8.495E+04	1.734E+05		
Acrylonitrile	107-13-1	-83.5	0.806	7.400E+04	1.75E+00	1.030E-04	1.220E-01	1.340E-05	1.050E-02	2.474E-04	9.889E+03	4.422E+03	9.027E+03		
Alachlor	15972-60-8	40	1.1333	1.830E+02	1.51E+02	2.000E-09	4.880E-02	7.700E-06	9.060E-01	4.880E-08	7.041E+05	3.149E+05	6.427E+05		
Aldicarb [or Temik]	116-06-3	99	1.195	6.030E+03	1.25E+01	1.440E-09	3.740E-02	5.520E-06	7.500E-02	2.009E-07	3.470E+05	1.552E+05	3.168E+05		
Aldicarb sulfone	1646-88-4	999				NA	0.000E+00	0.000E+00			#	#	#		
Aldicarb sulfoxide	1646-87-3	999				NA	0.000E+00	0.000E+00			#	#	#		
Aldrin	308-00-2	104	1.6	1.800E-01	2.45E+06	1.700E-04	1.640E-02	3.730E-06	1.470E+04	4.159E-10	7.627E+06	3.411E+06	6.962E+06		
Ally [or Methylsulfuron, methyl]	74223-64-6	158	1.47	9.500E+03	6.92E+01	3.020E-13	1.590E-02	5.410E-06	4.153E-01	6.664E-08	6.025E+05	2.694E+05	5.500E+05		
Allyl alcohol	107-18-6	-129	0.854	1.000E+06	1.45E+00	5.600E-06	1.140E-01	1.140E-05	8.700E-03	1.349E-05	4.236E+04	1.894E+04	3.866E+04		

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Table 4 - Technical Report
Chemical-Specific Values

Contaminants	C.A.S.#	Values from Reference Sources										Calculated Values ***		
		MP °C	d (g/cm ³)	S (mg/L)	Koc (L/kg)	HLC (atm-m ³ /mol)	Di (cm ² /s)**	Dw (cm ² /s)**	Kd (L/kg)*	Da (cm ² /s)	Resident Volatilization Factor	Child	Worker	
Allyl chloride	107-05-1	-134.5 EPI,meas	0.9376 SCDM	3.370E+03 EPI,meas	4.38E+01 EPI,calc	1.204E-02 EPI,calc	1.165E-01 CHEM9	1.080E-05 CHEM9	2.627E-01	6.718E-03	1.898E+03	8.486E+02	1.732E+03	
Aluminum	7429-90-5	660.37 SCDM	2.702 SCDM	0.000 ATSDR	NA	NA	4.683E-01 Calculated	3.816E-05 Calculated	0.000 SCDM	2.423E-06	#	#	#	
Aluminum phosphide	20859-73-8	1000 ATSDR	2.4 SCDM	0.000 ATSDR	NA	NA	2.606E-01 Calculated	2.247E-05 Calculated	0.000	1.426E-06	#	#	#	
Amethyn	834-12-8	88.5 HSDB-GeoMean	1.19 HSDB	2.090E+02 HSDB	2.09E+02 HSDB	2.400E-09 HSDB	2.980E-02 CHEM9	4.960E-06 CHEM9	1.254E+00	2.337E-08	1.017E+06	4.550E+05	9.288E+05	
Ammonia	7664-41-7	-77.7 SCDM	0.771 HSDB	5.300E+05 SCDM	NA	3.200E-04 SCDM	4.455E-01 Calculated	2.370E-05 Calculated	0.000 SCDM	3.040E-03	#	#	#	
Ammonia (as Total)		-77.7 SCDM	0.771 HSDB	5.300E+05 SCDM	NA	3.200E-04 SCDM	4.455E-01 Calculated	2.370E-05 Calculated	0.000 SCDM	3.040E-03	#	#	#	
Anilazine [or Dyrene]	101-05-3	999	1.8		NA	NA					#	#	#	
Aniline	62-53-3	-6 SCDM	1.0217 SCDM	3.600E+04 SCDM	9.00E+00 SCDM	1.900E-06 SCDM	7.000E-02 CHEM9	8.300E-06 CHEM9	5.400E-02	2.228E-06	1.042E+05	4.660E+04	9.511E+04	
Anthracene	120-12-7	215 SCDM	1.28 SCDM	4.340E-02 SCDM	2.95E+04 SCDM	6.500E-05 SCDM	3.240E-02 CHEM9	7.740E-06 CHEM9	1.770E+02	2.625E-08	9.599E+05	4.293E+05	8.763E+05	
Antimony	7440-36-0	630.5 SCDM	6.684 SCDM	0.000 HSDB	NA	NA	2.887E-02 Calculated	2.661E-05 Calculated	4.500E+01	3.745E-09	#	#	#	
Aramite	140-57-8	999			NA	NA	0.000E+00	0.000E+00			#	#	#	
Arsenic	NOCAS	817 HSDB	5.727 SCDM	0.000 HSDB	NA	NA	2.952E-01 Calculated	3.245E-05 Calculated	0.000 SSG	2.060E-06	#	#	#	
Atrazine	1912-24-9	173 SCDM	1.23 HSDB	7.000E+01 SCDM	4.05E+02 SCDM	2.960E-09 HSDB	2.590E-02 CHEM9	6.660E-06 CHEM9	2.430E+00	1.678E-08	1.201E+06	5.370E+05	1.096E+06	
Azobenzene	103-33-3	68 HSDB	1.203 HSDB	6.400E+00 HSDB	2.58E+03 HSDB-GeoMean	1.350E-05 HSDB	3.257E-02 Calculated	7.466E-06 Calculated	1.548E+01	6.469E-08	6.115E+05	2.735E+05	5.583E+05	
Barium (soluble salts)	7440-39-3	725 SCDM	3.51 SCDM	0.000 ATSDR	NA	NA	3.066E-02 Calculated	1.682E-05 Calculated	4.100E+01	2.598E-09	#	#	#	
Baygon [or Propoxur]	114-26-1	87 EPI,meas	1.2 CRC	1.860E+03 EPI,meas	4.42E+01 EPI,calc	1.184E-07 EPI,calc	2.750E-02 CHEM9	6.680E-06 CHEM9	2.651E-01	1.355E-07	4.225E+05	1.890E+05	3.857E+05	
Bayleton	43121-43-3	82 HSDB	1.22 HSDB	1.360E+02 HSDB-GeoMean	4.70E+02 HSDB-GeoMean	8.110E-11 HSDB	1.743E-02 Calculated	5.653E-06 Calculated	2.820E+00	1.229E-08	1.403E+06	6.274E+05	1.281E+06	

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		MP °C	d (g/cm ³)	S (mg/L)	Koc (L/kg)	HLC (atm-m ³ /mol)	Di (cm ² /s)**	Dw (cm ² /s)**	Kd (L/kg)*	Da (cm ² /s)	Resident	Child	Worker	
Benomyl	17804-35-2	138.5	1.2882	3.800E+00	2.10E+03	3.720E-10	1.743E-02	5.799E-06	1.260E+01	2.900E-09	2.888E+06	1.292E+06	2.637E+06	
Bensulfide	741-58-2	999	Calculated	HSDB	NA	NA	0.000E+00	0.000E+00	0.000	0.000	#	#	#	
Bentazon	25057-99-0	138	1.47	5.340E+02	4.84E+01	2.200E-09	2.070E-02	7.132E-06	2.904E-01	1.162E-07	4.562E+05	2.040E+05	4.165E+05	
Benzaldehyde	100-52-7	-26	1.05	3.000E+03	7.14E+01	2.670E-05	7.300E-02	9.070E-06	4.284E-01	8.163E-06	5.444E+04	2.435E+04	4.969E+04	
Benzene	71-43-2	5.5	0.8765	1.750E+03	5.90E+01	5.550E-03	8.800E-02	1.020E-05	3.540E-01	2.146E-03	3.357E+03	1.501E+03	3.065E+03	
Benzenethiol	108-98-5	-14.8	1.0728	8.360E+02	2.46E+02	3.500E-04	6.743E-02	9.426E-06	1.476E+00	3.269E-05	2.720E+04	1.217E+04	2.483E+04	
Benzidine	92-87-5	120	1.25	5.000E+02	2.74E+03	3.900E-11	3.201E-02	7.639E-06	1.644E+01	2.932E-09	2.872E+06	1.285E+06	2.622E+06	
Benzo(a)anthracene	56-55-3	84	1.274	9.400E-03	4.00E+05	3.350E-06	5.100E-02	9.000E-06	2.400E+03	1.793E-10	1.162E+07	5.195E+06	1.060E+07	
Benzo(a)pyrene	50-32-8	176.5	1.351	1.620E-03	1.00E+06	1.130E-06	4.300E-02	9.000E-06	6.000E+03	2.721E-11	2.982E+07	1.333E+07	2.722E+07	
Benzo(b)fluoranthene	205-99-2	168	1.351	1.500E-03	1.25E+06	1.110E-04	2.260E-02	5.560E-06	7.500E+03	7.353E-10	5.736E+06	2.565E+06	5.236E+06	
Benzo(g,h,i)perylene	181-24-2	277	1.283	2.600E-04	3.85E+06	1.410E-07	2.100E-02	5.260E-06	2.310E+04	1.725E-12	1.184E+08	5.295E+07	1.081E+08	
Benzo(k)fluoranthene	207-08-9	217	1.351	8.000E-04	1.25E+06	8.290E-07	2.260E-02	5.560E-06	7.500E+03	1.016E-11	4.879E+07	2.182E+07	4.454E+07	
Benzoic acid	65-85-0	122.4	1.2659	3.500E+03	6.00E-01	1.540E-06	5.360E-02	7.970E-06	3.600E-03	2.229E-06	1.042E+05	4.660E+04	9.511E+04	
Benzotrifluoride	98-07-7	-5	1.3756	1.000E+02	1.20E+03	2.600E-04	2.750E-02	7.770E-06	7.200E+00	2.146E-06	1.062E+05	4.749E+04	9.693E+04	
Benzyl alcohol	100-51-6	-15.2	1.0419	4.000E+04	1.25E+01	3.910E-07	7.118E-02	8.970E-06	7.500E-02	6.728E-07	1.896E+05	8.480E+04	1.731E+05	
Benzyl chloride	100-44-7	-45	1.1004	5.250E+02	1.80E+02	4.150E-04	7.500E-02	7.800E-06	1.080E+00	5.750E-05	2.051E+04	9.173E+03	1.872E+04	
Beryllium	7440-41-7	1278	1.8477	0.000	NA	NA	9.909E-01	5.866E-05	7.900E+02	4.713E-10	#	#	#	

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		MP °C	d (g/cm ³)	S (mg/L)	Koc (L/kg)	HLC (atm-m ³ /mol)	Di (cm ² /s)**	Dw (cm ² /s)**	Kd (L/kg)*	Da (cm ² /s)	Resident	Child	Worker	Volatilization Factor (m ³ /kg)			
Beta radiation	NOCAS	999			NA	0.000E+00	0.000E+00	0.000E+00						#	#	#	#
Bidrin [or Dicrotophos]	141-66-2	-9.9	1.216	1.000E+06	7.32E+01	1.200E-12	2.296E-02	6.414E-06	4.392E-01	7.552E-08	5.660E+05	2.531E+05	5.167E+05				
Bioallethrin	28057-48-9	999			NA	0.000E+00	0.000E+00	0.000E+00						#	#	#	#
Biphenyl, 1,1- [or Diphenyl]	92-52-4	69	1.04	6.030E+00	8.00E+03	3.000E-04	4.040E-02	8.150E-06	4.800E+01	5.519E-07	2.094E+05	9.367E+04	1.912E+05				
Bis(2-chloroethyl)ether	111-44-4	-51.9	1.22	1.720E+04	1.55E+01	1.800E-05	6.920E-02	7.530E-06	9.300E-02	1.433E-05	4.108E+04	1.837E+04	3.750E+04				
Bis(2-chloroisopropyl)ether [or Bis(2-chloro-1-methylethyl)ether]	39638-32-9	-89.3	1.122	1.310E+03	3.45E+02	3.320E-04	6.020E-02	6.410E-06	2.070E+00	2.011E-05	3.468E+04	1.551E+04	3.166E+04				
Bis(2-ethylhexyl)adipate	103-23-1	-67.8	0.922	7.800E-01	4.86E+04	2.862E-03	1.489E-02	4.157E-06	2.918E+02	3.189E-07	2.754E+05	1.232E+05	2.514E+05				
Bis(2-ethylhexyl)phthalate [or DEHP]	117-81-7	-55	0.981	3.400E-01	1.50E+07	1.020E-07	3.510E-02	3.660E-06	9.000E+04	3.450E-13	2.648E+08	1.184E+08	2.417E+08				
Bisphenol A	80-05-7	152.5	1.195	1.200E+02	6.92E+02	1.000E-10	2.640E-02	5.730E-06	4.152E+00	8.568E-09	1.681E+06	7.520E+05	1.535E+06				
Boron	7440-42-8	2300	2.35	0.000	NA	NA	9.117E-01	6.076E-05	0.000	3.857E-06				#	#	#	#
Bromacil	314-40-9	158.7	1.55	8.150E+02	6.62E+01	5.070E-11	2.500E-02	4.560E-06	3.972E-01	5.823E-08	6.446E+05	2.883E+05	5.884E+05				
Bromochloromethane	74-87-5	-86.5	1.9344	1.670E+04	5.40E+01	1.500E-03	4.740E-02	1.000E-05	3.240E-01	3.566E-04	8.236E+03	3.683E+03	7.518E+03				
Bromodichloromethane	75-27-4	-57	1.98	6.740E+03	5.50E+01	1.600E-03	2.980E-02	1.060E-05	3.300E-01	2.358E-04	1.013E+04	4.532E+03	9.251E+03				
Bromoform	75-25-2	8	2.899	3.100E+03	8.50E+01	5.350E-04	1.490E-02	1.030E-05	5.100E-01	2.848E-05	2.916E+04	1.304E+04	2.662E+04				
Bromomethane [or Methyl bromide]	74-83-9	-93.7	1.6755	1.520E+04	1.04E+01	6.240E-03	7.280E-02	1.210E-05	6.240E-02	4.707E-03	2.267E+03	1.014E+03	2.070E+03				
Bromoxynil	1689-84-5	190	1.7406	1.300E+02	4.35E+02	1.919E-08	1.595E-02	7.249E-06	2.607E+00	1.725E-08	1.184E+06	5.297E+05	1.081E+06				
Bromoxynil octanoate	1689-99-2	999			NA	0.000E+00	0.000E+00	0.000E+00						#	#	#	#

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Butane	106-97-8	-138.4 HSDB	0.6012 HSDB	6.100E+01 HSDB	NA	2.910E-01 CHEM8	1.890E-01 CHEM9	1.120E-05 CHEM9	0.000	5.094E-02	#	#	#		
Butanol, n-	71-36-3	-89.8 SCDM	0.8098 SCDM	7.400E+04 SCDM	7.00E+00 SCDM	8.810E-06 SCDM	8.000E-02 CHEM9	9.300E-06 CHEM9	4.200E-02	1.125E-05	4.637E+04	2.074E+04	4.233E+04		
Butyl acetate, n-	123-86-4	-78 EPI/meas	0.8826 HSDB	8.400E+03 EPI/meas	2.09E+01 EPI/calc	5.815E-04 EPI/calc	6.831E-02 Calculated	8.123E-06 Calculated	1.252E-01	3.780E-04	8.000E+03	3.578E+03	7.303E+03		
Butyl alcohol, tert- [or Butanol, tert-]	75-65-0	25.4 EPI/meas	0.78 Verschuuren	1.000E+06 HowardsMeylan	1.47E+00 EPI/calc	2.103E-05 EPI/calc	1.408E-01 Calculated	9.878E-06 Calculated	8.826E-03	5.986E-05	2.010E+04	8.991E+03	1.835E+04		
Butyl benzyl phthalate	85-68-7	-35 HSDB	1.117 HSDB-GeoMean	2.690E+00 SCDM	5.50E+04 SCDM	1.260E-06 SCDM	1.990E-02 CHEM9	4.100E-06 CHEM9	3.300E+02	2.448E-10	9.942E+06	4.446E+06	9.075E+06		
Butylate	2008-41-5	-9.99 HSDB est.	0.9402 HSDB	4.400E+01 HSDB	2.68E+02 HSDB-GeoMean	8.450E-06 HSDB	2.897E-02 Calculated	5.792E-06 Calculated	1.608E+00	3.345E-07	2.689E+05	1.203E+05	2.455E+05		
Butylphthalyl butylglycolate	85-70-1	-35 HSDB	1.097 HSDB	1.200E+02 HSDB	1.50E+04 HSDB	2.060E-08 HSDB	1.544E-02 Calculated	4.890E-06 Calculated	9.000E+01	3.522E-10	8.288E+06	3.706E+06	7.566E+06		
Cadmium	7440-43-9	321 SCDM	8.65 SCDM	0.000 HSDB	NA	NA	2.981E-02 Calculated	3.258E-05 Calculated	7.500E+01	2.754E-09	#	#	#		
Calcium cyanide	592-01-8	640 HSDB	1.853 HSDB	7.160E+04 ATSDR	NA	NA	1.719E-01 Calculated	1.457E-05 Calculated	0.000	9.248E-07	#	#	#		
Captan	2425-06-1	160 EPI/meas	1.46 Calculated	1.400E+00 EPI/meas	2.74E+03 EPI/calc	6.859E-10 EPI/calc	1.286E-02 Calculated	5.677E-06 Calculated	1.642E+01	2.183E-09	3.329E+06	1.489E+06	3.039E+06		
Captan	133-06-2	172.5 SCDM	1.74 SCDM	3.300E+00 SCDM	2.55E+02 SCDM	7.190E-06 SCDM	1.810E-02 CHEM9	5.000E-06 CHEM9	1.530E+00	1.939E-07	3.533E+05	1.580E+05	3.225E+05		
Carbaryl [or Sevin]	63-25-2	145 SCDM	1.2282 SCDM	1.040E+02 SCDM	2.10E+02 SCDM	3.460E-09 SCDM	2.780E-02 CHEM9	7.130E-06 CHEM9	1.260E+00	3.344E-08	8.506E+05	3.804E+05	7.765E+05		
Carbazole	86-74-8	246.2 SCDM	1.1 HSDB	7.480E+00 SCDM	3.40E+03 SCDM	1.530E-08 SCDM	3.900E-02 CHEM9	7.030E-06 CHEM9	2.040E+01	2.241E-09	3.286E+06	1.470E+06	3.000E+06		
Carbofuran	1563-86-2	151 SCDM	1.18 SCDM	3.200E+02 SCDM	3.85E+01 SCDM	9.200E-05 SCDM	2.548E-02 Calculated	6.569E-06 Calculated	2.310E-01	1.556E-05	3.942E+04	1.763E+04	3.599E+04		
Carbon disulfide	75-15-0	-115 SCDM	1.2632 SCDM	1.190E+03 SCDM	4.57E+01 SCDM	3.030E-02 SCDM	1.040E-01 CHEM9	1.000E-05 CHEM9	2.742E-01	1.130E-02	1.463E+03	6.545E+02	1.336E+03		
Carbon tetrachloride	56-23-5	-23 SCDM	1.594 SCDM	7.930E+02 SCDM	1.75E+02 SCDM	3.040E-02 SCDM	7.800E-02 CHEM9	8.800E-06 CHEM9	1.050E+00	3.737E-03	2.544E+03	1.138E+03	2.323E+03		
Carbophenothion [or Trithion]	786-19-6	-9.99 HSDB est.	1.271 SCDM	3.650E-02 SCDM	3.65E+05 SCDM	2.150E-07 HSDB	1.405E-02 Calculated	5.281E-06 Calculated	2.190E+03	1.832E-11	3.634E+07	1.625E+07	3.317E+07		

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Table 4 - Technical Report
Chemical-Specific Values

Contaminants	CAS#	Values from Reference Sources										Calculated Values ***		
		MP °C	d (g/cm ³)	S (mg/L)	Koc (L/kg)	HLC (a _{um} -m ³ /mol)	Di (cm ² /s)**	Dw (cm ² /s)**	Kd (L/kg)*	Da (cm ² /s)	Resident Volatilization Factor (m ³ /kg)	Child	Worker	
Carboxin	5234-68-4	94	1.3	1.90E+02	8.00E+01	8.76E-10	2.250E-02	6.709E-06	4.798E-01	7.354E-08	5.736E+05	2.565E+05	5.238E+05	
Chloral hydrate	302-17-0	57	1.9081	9.310E+06	1.00E+00	2.151E-07	3.031E-02	1.044E-05	6.000E-03	7.593E-07	1.785E+05	7.983E+04	1.629E+05	
Chloramben	133-90-4	200		7.000E+02	1.07E+01	4.133E-09	3.230E-02	8.510E-06	6.432E-02	3.305E-07	2.705E+05	1.210E+05	2.470E+05	
Chlordane (total)	(a)	106	1.6	5.600E-02	1.20E+05	4.860E-05	1.180E-02	4.370E-06	7.200E+02	1.778E-09	3.689E+06	1.650E+06	3.367E+06	
Chloride	16887-00-6	999			NA	NA	0.000E+00	0.000E+00	0.000	0.000	#	#	#	
Chlorine	7782-50-5	-101	1.4085	6.300E+03	1.43E+01	2.790E-03	1.852E-01	1.446E-05	8.580E-02	5.440E-03	2.109E+03	9.430E+02	1.928E+03	
Chlorine cyanide [or Cyanogen chloride]	506-77-4	-6.5	1.186	8.500E+04	4.95E+03	3.735E-05	1.561E-01	1.280E-05	2.970E+01	4.301E-07	2.372E+05	1.061E+05	2.168E+05	
Chlorite (sodium salt) [or Sodium chlorite]	7758-19-2	189.7	2.468	4.200E+05	NA	NA	1.944E-01	1.749E-05	0.000	1.110E-06	#	#	#	
Chloro-1,3-butadiene [or Chloroprene]	126-99-8	-130	0.956	1.740E+03	1.10E+02	3.200E-02	1.040E-01	1.050E-05	6.600E-01	7.209E-03	1.832E+03	8.192E+02	1.672E+03	
Chloroacetic acid	79-11-8	50	1.4043	6.140E+06	3.00E+01	1.300E-09	7.330E-02	1.210E-05	1.800E-01	2.751E-07	2.966E+05	1.326E+05	2.707E+05	
Chloroaniline, p-	106-47-8	72.5	1.429	5.300E+03	6.50E+01	3.310E-07	4.830E-02	1.010E-05	3.900E-01	2.021E-07	3.460E+05	1.547E+05	3.158E+05	
Chlorobenzene	108-90-7	-45.2	1.1058	4.720E+02	2.19E+02	3.700E-03	7.300E-02	8.700E-06	1.314E+00	4.090E-04	7.691E+03	3.439E+03	7.021E+03	
Chlorobenzilate	510-15-6	37	1.2816	1.110E+01	2.00E+04	7.240E-08	1.890E-02	4.000E-06	1.200E+02	2.363E-10	1.012E+07	4.525E+06	9.236E+06	
Chloroform	67-66-3	-63.6	1.4832	7.920E+03	3.98E+01	3.670E-03	1.040E-01	1.000E-05	2.388E-01	2.270E-03	3.264E+03	1.460E+03	2.980E+03	
Chloro-m-cresol, p- [or Chloro-3-methylphenol, 4-]	58-50-7	67	1.2674	3.800E+03	5.00E+01	3.990E-07	4.780E-02	7.830E-06	3.000E-01	2.284E-07	3.254E+05	1.455E+05	2.971E+05	
Chloronaphthalene, beta-	91-58-7	61	1.1377	1.170E+01	1.15E+04	3.140E-04	4.018E-02	7.230E-06	6.900E+01	3.994E-07	2.461E+05	1.101E+05	2.247E+05	
Chloronitrobenzene, p-	100-00-5	83	1.52	3.190E+02	2.68E+02	3.600E-05	3.490E-02	9.420E-06	1.608E+00	1.642E-06	1.214E+05	5.429E+04	1.108E+05	

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Table 4 - Technical Report
Chemical-Specific Values

Contaminants	CAS#	Values from Reference Sources										Calculated Values ***			
		MP °C	d (g/cm ³)	S (mg/L)	Koc (L/kg)	HLC (atm·m ³ /mol)	Di (cm ² /s)**	Dw (cm ² /s)**	Kd (L/kg)*	Da (cm ² /s)	Resident	Child	Worker	Volatilization Factor (m ³ /kg)	
Chlorophenol, 2-	95-57-8	9.8 SCDM	1.2634 SCDM	2.200E+04 SCDM	3.88E+02 SCDM	3.910E-04 SCDM	5.010E-02 CHEM9	9.460E-06 CHEM9	2.328E+00	1.763E-05	3.705E+04	1.657E+04	3.382E+04		
Chlorophenol, 3-	108-43-0	32.6 HSDB	1.268 HSDB	2.500E+04 HSDB	3.50E+02 HSDB	8.500E-07 HSDB	5.050E-02 CHEM9	9.370E-06 CHEM9	2.100E+00	6.966E-08	5.893E+05	2.636E+05	5.380E+05		
Chlorophenol, 4-	106-48-9	42.7 HSDB	1.2238 HSDB	2.600E+04 HSDB	7.05E+01 HSDB	5.920E-07 HSDB	4.930E-02 CHEM9	9.680E-06 CHEM9	4.230E-01	2.394E-07	3.179E+05	1.422E+05	2.902E+05		
Chloropicrin	76-06-2	999			NA	NA	0.000E+00	0.000E+00			#	#	#		
Chlorothalonil [or Bravo]	1897-45-6	250.5 HSDB-GeoMean	1.7 HSDB	6.000E-01 HSDB	1.80E+03 HSDB	2.000E-07 HSDB	1.700E-02 Calculated	7.324E-06 Calculated	1.080E+01	4.946E-09	2.211E+06	9.890E+05	2.019E+06		
Chlorotoluene, o-	95-49-8	-35.6 HSDB	1.0826 HSDB	3.740E+02 HSDB	3.87E+02 CHEM9	3.570E-03 HSDB	5.500E-02 CHEM9	8.650E-06 CHEM9	2.322E+00	1.751E-04	1.175E+04	5.257E+03	1.073E+04		
Chlorotoluene, p-	106-43-4	7.5 HSDB	1.0697 HSDB	1.060E+02 HSDB	3.40E+02 HSDB	4.400E-03 HSDB	5.500E-02 CHEM9	8.650E-06 CHEM9	2.040E+00	2.432E-04	9.974E+03	4.461E+03	9.105E+03		
Chlorproptham	101-21-3	40.9 HSDB-GeoMean	1.18 HSDB	1.080E+02 HSDB	8.16E+02 HSDB	2.500E-08 HSDB	5.500E-02 CHEM9	8.650E-06 CHEM9	4.896E+00	1.159E-08	1.445E+06	6.460E+05	1.319E+06		
Chlorpyrifos	2921-88-2	42 SCDM	1.398 HSDB	1.120E+00 SCDM	1.74E+04 SCDM	1.230E-05 HSDB	1.305E-02 Calculated	5.517E-06 Calculated	1.044E+02	3.691E-09	2.560E+06	1.145E+06	2.337E+06		
Chlorpyrifos, methyl	5598-13-0	999			NA	NA	0.000E+00	0.000E+00			#	#	#		
Chlorsulfuron	64902-72-3	999			NA	NA	0.000E+00	0.000E+00			#	#	#		
Chromium (total)	NOCAS	999			NA	NA	0.000E+00	0.000E+00	1.900E+01	0.000	#	#	#		
Chrysene	218-01-9	258.2 SCDM	1.274 SCDM	1.600E-03 SCDM	4.00E+05 SCDM	9.460E-05 SCDM	2.480E-02 CHEM9	6.210E-06 CHEM9	2.400E+03	2.152E-09	3.353E+06	1.500E+06	3.061E+06		
Cobalt	7440-48-4	1493 SCDM	8.92 SCDM	0.000 HSDB	NA	NA	3.925E-01 Calculated	4.890E-05 Calculated	0.000 SCDM	3.104E-06	#	#	#		
Copper	7440-50-8	1083 SCDM	8.94 SCDM	0.000 HSDB	NA	NA	3.748E-01 Calculated	4.680E-05 Calculated	0.000 SCDM	2.971E-06	#	#	#		
Coumaphos	56-72-4	91 HSDB	1.47 HSDB	1.500E+00 HSDB	4.23E+03 HSDB	3.200E-08 HSDB	1.221E-02 Calculated	5.570E-06 Calculated	2.538E+01	1.421E-09	4.126E+06	1.845E+06	3.766E+06		
Crotonaldehyde	123-73-9	-76 HSDB	0.869 HSDB	1.560E+05 HSDB	6.20E+00 HSDB	1.940E-05 HSDB	9.030E-02 CHEM9	1.020E-05 CHEM9	3.720E-02	2.833E-05	2.922E+04	1.307E+04	2.668E+04		

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Table 4 - Technical Report
Chemical-Specific Values

Contaminants	CAS#	Values from Reference Sources										Calculated Values ***			
		MP °C	d (g/cm ³)	S (mg/L)	Koc (L/kg)	HLC (atm-m ³ /mol)	Di (cm ² /s)**	Dw (cm ² /s)**	Kd (L/kg)*	Da (cm ² /s)	Resident Volatilization Factor (m ³ /kg)	Child	Worker		
Cumene [or isopropyl benzene]	98-82-8	-96 SCDM	0.8618 SCDM	6.130E+01 SCDM	3.30E+03 SCDM	1.160E+00 SCDM	6.500E-02 CHEM9	7.100E-06 CHEM9	1.980E+01 SCDM	5.698E-03 SCDM	2.060E+03 SCDM	9.215E+02 SCDM	1.881E+03 SCDM		
Cyanazine	21725-46-2	999			NA	0.000E+00	0.000E+00				#	#	#		
Cyanide, free	57-12-5	634 HSDB	1.553 HSDB	5.000E+05 HSDB	2.71E+00 EPI,meas	3.102E-20 EPI,calc	2.507E-01 Calculated	1.913E-05 Calculated	1.626E-02 SCDM	1.045E-06 SCDM	1.522E+05 SCDM	6.806E+04 SCDM	1.389E+05 SCDM		
Cyanogen	460-19-5	-27.9 SCDM	0.9537 SCDM	8.500E+03 SCDM	4.95E+03 SCDM	5.400E-03 HSDB	2.030E-01 CHEM9	1.370E-05 CHEM9	2.970E+01 SCDM	8.024E-05 SCDM	1.736E+04 SCDM	7.765E+03 SCDM	1.585E+04 SCDM		
Cycloate	1134-23-2	11.5 HSDB	1.016 HSDB	7.500E+01 HSDB	3.82E+02 HSDB-GeoMean	6.700E-06 HSDB	2.828E-02 Calculated	6.102E-06 Calculated	2.292E+00 SCDM	1.892E-07 SCDM	3.576E+05 SCDM	1.599E+05 SCDM	3.264E+05 SCDM		
Cyclohexanone	108-94-1	-31 SCDM	0.9478 SCDM	5.000E+03 SCDM	6.50E+00 SCDM	8.410E-06 SCDM	7.840E-02 CHEM9	8.620E-06 CHEM9	3.900E-02 SCDM	1.075E-05 SCDM	4.744E+04 SCDM	2.121E+04 SCDM	4.330E+04 SCDM		
Cyclohexylamine	108-91-8	134 EPI,meas	0.8647 HSDB	1.000E+06 EPI,meas	4.04E+01 EPI,calc	1.700E-05 EPI,calc	7.450E-02 CHEM9	1.040E-05 CHEM9	2.422E-01 SCDM	8.274E-06 SCDM	5.407E+04 SCDM	2.418E+04 SCDM	4.936E+04 SCDM		
Cypermethrin	52315-07-8	69.3 EPI,meas	1.24 Mackay	4.000E-03 EPI,meas	1.08E+05 EPI,calc	8.770E-06 EPI,calc	1.114E-02 Calculated	4.631E-06 Calculated	6.480E+02 SCDM	3.747E-10 SCDM	8.035E+06 SCDM	3.593E+06 SCDM	7.335E+06 SCDM		
Dacthal [or DCPA]	1861-32-1	999			NA	0.000E+00	0.000E+00	0.000E+00			#	#	#		
Dalapon	75-99-0	999			NA	0.000E+00	0.000E+00	0.000E+00			#	#	#		
DEET	134-62-3	999			NA	0.000E+00	0.000E+00	0.000E+00			#	#	#		
Demeton	8065-48-3	999			NA	0.000E+00	0.000E+00	0.000E+00			#	#	#		
Diallate	2303-16-4	27.4 HSDB-GeoMean	1.188 HSDB	4.000E+01 SCDM	2.60E+04 HSDB	3.800E-06 HSDB	1.963E-02 Calculated	5.850E-06 Calculated	1.560E+02 SCDM	1.282E-09 SCDM	4.344E+06 SCDM	1.943E+06 SCDM	3.966E+06 SCDM		
Diazinon	333-41-5	87.58 EPI,meas	1.117 HSDB	4.000E+01 EPI,meas	5.35E+02 SCDM	1.400E-06 HSDB	2.060E-02 CHEM9	4.160E-06 CHEM9	3.210E+00 SCDM	2.701E-08 SCDM	9.464E+05 SCDM	4.232E+05 SCDM	8.639E+05 SCDM		
Dibenz(a,h)anthracene	59-70-3	269.5 SCDM	1.282 HSDB	2.490E-03 SCDM	3.75E+06 SCDM	1.470E-08 SCDM	2.000E-02 CHEM9	5.240E-06 CHEM9	2.250E+04 SCDM	1.507E-12 SCDM	1.267E+08 SCDM	5.666E+07 SCDM	1.157E+08 SCDM		
Dibenzofuran	132-64-9	86.5 SCDM	1.0886 SCDM	1.000E+01 SCDM	1.35E+04 SCDM	1.260E-05 SCDM	2.670E-02 CHEM9	6.000E-06 CHEM9	8.100E+01 SCDM	9.531E-09 SCDM	1.593E+06 SCDM	7.125E+05 SCDM	1.454E+06 SCDM		
Dibromo-3-chloropropane, 1,2- [or DBCP, 1,2-]	96-12-8	5 HSDB	2.093 SCDM	1.230E+03 SCDM	8.50E+01 SCDM	1.470E-04 SCDM	2.120E-02 CHEM9	7.020E-06 CHEM9	5.100E-01 SCDM	1.121E-05 SCDM	4.645E+04 SCDM	2.077E+04 SCDM	4.240E+04 SCDM		

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Contaminants	CAS#	Values from Reference Sources											Calculated Values ***		
		MP °C	d (g/cm ³)	S (mg/L)	Koc (L/kg)	HLC (atm-m ³ /mol)	Di (cm ² /s)**	Dw (cm ² /s)**	Kd (L/kg)*	Da (cm ² /s)	Resident	Child	Worker		
Dibromochloromethane	124-48-1	-20	2.451	2.600E+03	6.30E+01	7.830E-04	1.960E-02	1.050E-05	3.780E-01	6.939E-05	1.867E+04	8.350E+03	1.704E+04		
Dibromoethane, 1,2- [or EDB]	106-93-4	9.9	2.1791	4.180E+03	4.26E+01	7.430E-04	2.870E-02	8.060E-06	2.556E-01	1.290E-04	1.369E+04	6.123E+03	1.250E+04		
Dibutyl phthalate	84-74-2	-35	1.0465	1.120E+01	1.57E+03	9.800E-10	4.380E-02	7.860E-06	9.420E+00	5.251E-09	2.146E+06	9.599E+05	1.959E+06		
Dicamba	1918-00-9	115	1.57	4.500E+03	2.05E+02	7.900E-09	2.242E-02	7.801E-06	1.230E+00	3.752E-08	8.029E+05	3.591E+05	7.330E+05		
Dichloroacetic acid	79-43-6	13.5	1.563	1.000E+06	7.50E+01	6.800E-08	4.628E-02	1.075E-05	4.500E-01	1.366E-07	4.209E+05	1.882E+05	3.842E+05		
Dichloroacetone	3018-12-0	999	1.369	3.340E+04	1.28E+01	3.790E-06	6.097E-02	1.092E-05	7.680E-02	3.247E-06	8.632E+04	3.860E+04	7.880E+04		
Dichlorobenzene, 1,2-	95-50-1	-16.7	1.3059	1.560E+02	6.15E+02	1.900E-03	6.900E-02	7.900E-06	3.690E+00	7.528E-05	1.793E+04	8.017E+03	1.636E+04		
Dichlorobenzene, 1,3-	541-73-1	-24.8	1.2884	1.330E+02	7.25E+02	3.100E-03	6.920E-02	7.860E-06	4.350E+00	1.047E-04	1.520E+04	6.796E+03	1.387E+04		
Dichlorobenzene, 1,4-	106-46-7	52.7	1.2475	7.380E+01	6.15E+02	2.400E-03	6.900E-02	7.900E-06	3.690E+00	9.499E-05	1.596E+04	7.137E+03	1.457E+04		
Dichlorobenzidine, 3,3'-	91-94-1	132.5	1.41	3.110E+00	7.25E+02	4.000E-09	2.250E-02	5.550E-06	4.350E+00	7.961E-09	1.743E+06	7.796E+05	1.591E+06		
Dichlorodifluoromethane	75-71-8	-158	1.486	2.800E+02	6.15E+01	3.430E-01	5.165E-02	1.084E-05	3.690E-01	1.238E-02	1.399E+03	6.257E+02	1.277E+03		
Dichlorodiphenyldichloroethane, p,p'- [or DDD, 4,4']	72-54-8	109.5	1.385	9.000E-02	1.00E+06	4.000E-06	1.930E-02	4.040E-06	6.000E+03	3.238E-11	2.733E+07	1.222E+07	2.495E+07		
Dichlorodiphenyldichloroethylene, p,p'- [or DDE, 4,4']	72-55-9	89	1.41	1.200E-01	4.40E+06	2.100E-05	1.960E-02	4.050E-06	2.640E+04	3.486E-11	2.634E+07	1.178E+07	2.405E+07		
Dichlorodiphenyltrichloroethane, p,p'- [or DDT, 4,4']	50-29-3	108.5	0.985	2.500E-02	2.65E+06	8.100E-06	1.470E-02	4.530E-06	1.590E+04	1.817E-11	3.649E+07	1.632E+07	3.331E+07		
Dichloroethane, 1,1-	75-34-3	-96.9	1.1757	5.060E+03	3.16E+01	5.620E-03	7.420E-02	1.050E-05	1.896E-01	2.734E-03	2.975E+03	1.330E+03	2.716E+03		
Dichloroethane, 1,2- [or EDC]	107-06-2	-35.5	1.2351	8.520E+03	1.74E+01	9.790E-04	1.040E-01	9.900E-06	1.044E-01	1.049E-03	4.801E+03	2.147E+03	4.383E+03		
Dichloroethene, 1,1-	75-35-4	-122.5	1.213	2.250E+03	5.90E+01	2.610E-02	9.000E-02	1.040E-05	3.540E-01	7.815E-03	1.759E+03	7.868E+02	1.606E+03		

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Table 4 - Technical Report
Chemical-Specific Values

Contaminants	CAS#	Values from Reference Sources										Calculated Values ***						
		MP °C	d (g/cm ³)	S (mg/L)	Koc (L/kg)	HLC (atm-m ³ /mol)	Di (cm ² /s)**	Dw (cm ² /s)**	Kd (L/kg)*	Da (cm ² /s)	Resident Volatilization Factor (m ³ /kg)	Child #	Worker #					
Dichloroethene, 1,2- (mixture)	540-59-0	999			NA	0.000E+00	0.000E+00	0.000E+00										
Dichloroethene, cis-1,2-	156-59-2	-80	1.2837	3.500E+03	3.55E+01	4.080E-03	7.360E-02	1.130E-05	SCDM	SCDM	CHEM9	CHEM9	2.130E-01	1.903E-03	3.565E+03	1.594E+03	3.255E+03	
Dichloroethene, trans-1,2-	156-60-5	-49.8	1.2595	6.300E+03	5.25E+01	9.380E-03	7.070E-02	1.190E-05	SCDM	SCDM	CHEM9	CHEM9	3.150E-01	2.970E-03	2.854E+03	1.278E+03	2.605E+03	
Dichlorophenol, 2,3-	576-24-9	58	1.383	8.220E+03	4.26E+02	3.100E-07	4.000E-02	7.220E-06	HSDb	ATSDR	CHEM9	CHEM9	2.556E+00	2.745E-08	9.387E+05	4.198E+05	8.569E+05	
Dichlorophenol, 2,4-	120-83-2	45	1.383	4.500E+03	1.47E+02	3.160E-06	4.000E-02	7.220E-06	SCDM	SCDM	CHEM9	CHEM9	8.820E-01	3.278E-07	2.716E+05	1.215E+05	2.480E+05	
Dichlorophenol, 2,5-	583-78-8	59	1.383	5.000E+05	1.10E+03	3.100E-07	4.000E-02	7.220E-06	HSDb	Surrogate (b)	CHEM9	CHEM9	6.800E+00	1.088E-08	1.491E+06	6.668E+05	1.361E+06	
Dichlorophenol, 2,6-	87-65-0	68.5	1.383	2.650E+03	7.50E+02	2.700E-06	4.000E-02	7.220E-06	HSDb	Surrogate (b)	CHEM9	CHEM9	4.500E+00	6.125E-08	6.285E+05	2.811E+05	5.737E+05	
Dichlorophenol, 3,4-	95-77-2	68	1.383	9.280E+03	7.18E+02	2.203E-06	3.550E-02	8.679E-06	HSDb	Surrogate (b)	Calculated	Calculated	4.306E+00	5.128E-08	6.868E+05	3.072E+05	6.270E+05	
Dichlorophenoxy acetic acid, 2,4-	94-75-7	140.5	1.416	6.770E+02	1.66E+02	1.020E-08	5.880E-02	6.490E-06	SCDM	SCDM	CHEM9	CHEM9	9.960E-01	3.879E-08	7.898E+05	3.532E+05	7.210E+05	
Dichlorophenoxy butyric acid, 2,4- [or DB, 2,4-]	94-82-6	999			NA	0.000E+00	0.000E+00	0.000E+00										
Dichloropropane, 1,2-	78-87-5	-70	1.159	2.800E+03	4.37E+01	2.800E-03	7.820E-02	8.730E-06	SCDM	SCDM	CHEM9	CHEM9	2.622E-01	1.248E-03	4.406E+03	1.971E+03	4.023E+03	
Dichloropropene, 1,3-	542-75-6	-50	1.22	2.800E+03	4.57E+01	1.770E-02	6.260E-02	1.000E-05	SCDM	SCDM	CHEM9	CHEM9	2.742E-01	4.731E-03	2.261E+03	1.011E+03	2.064E+03	
Dichloroprop	120-36-5	117.8	1.42	3.500E+02	8.02E+01	1.220E-08	2.164E-02	7.079E-06	HSDb	HSDb	Calculated	Calculated	4.811E-01	7.832E-08	5.558E+05	2.485E+05	5.073E+05	
Dichlorvos	62-73-7	-9.99	1.415	1.000E+04	1.62E+01	1.500E-03	2.315E-02	7.330E-06	SCDM	SCDM	CHEM9	CHEM9	9.720E-02	3.634E-04	8.159E+03	3.649E+03	7.448E+03	
Dicofol [or Kelthane]	115-32-2	77.5	1.13	1.320E+00	2.95E+03	5.590E-10	1.348E-02	4.697E-06	HSDb	Howard&Meylan	Calculated	Calculated	1.770E+01	1.676E-09	3.799E+06	1.699E+06	3.468E+06	
Dieldrin	60-57-1	175.5	1.75	1.950E-01	2.14E+04	1.510E-05	1.560E-02	3.640E-06	SCDM	SCDM	CHEM9	CHEM9	1.284E+02	4.184E-09	2.405E+06	1.075E+06	2.195E+06	
Diethyl phthalate	84-66-2	-40.5	1.232	1.080E+03	2.85E+02	4.500E-07	2.484E-02	6.350E-06	SCDM	SCDM	Calculated	Calculated	1.710E+00	3.576E-08	8.225E+05	3.678E+05	7.508E+05	

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Table 4 - Technical Report
Chemical-Specific Values

Contaminants	CAS#	Values from Reference Sources										Calculated Values ***		
		MP °C	d (g/cm ³)	S (mg/L)	Koc (L/kg)	HLC (atm-m ³ /mol)	Di (cm ² /s)**	Dw (cm ² /s)**	Kd (L/kg)*	Da (cm ² /s)	Resident Volatilization Factor	Child	Worker	
Dinoseb	88-85-7	40	1.265	5.200E+01	1.89E+01	4.560E-07	2.430E-02	5.660E-06	1.134E-01	2.818E-07	2.930E+05	1.310E+05	2.675E+05	
Dioxane, 1,4-	123-91-1	11.8	1.0337	1.000E+06	4.15E-01	4.800E-06	2.290E-01	1.020E-05	2.490E-03	2.405E-05	3.172E+04	1.418E+04	2.895E+04	
Dioxins, as total 2,3,7,8-TCDD equivalents	1746-01-6	295	1.827	7.910E-06	2.85E+06	7.920E-05	1.040E-01	5.600E-06	1.590E+04	1.134E-09	4.619E+06	2.066E+06	4.217E+06	
Diphenamid	957-51-7	135	1.17	2.600E+02	2.10E+02	2.420E-11	2.31E-02	6.234E-06	1.260E+00	2.910E-08	9.118E+05	4.078E+05	8.323E+05	
Diphenylamine, N,N-	122-39-4	52.9	1.2	3.600E+01	1.89E+03	5.000E-07	3.602E-02	7.799E-06	1.132E+01	7.779E-09	1.763E+06	7.886E+05	1.610E+06	
Diphenylhydrazine, 1,2-	122-66-7	131	1.158	6.800E+01	8.00E+02	1.530E-06	3.170E-02	7.360E-06	4.800E+00	3.116E-08	8.812E+05	3.941E+05	8.044E+05	
Diquat	85-00-7	337	1.245	7.080E+05	1.00E+06	1.430E-13	1.412E-02	5.205E-06	6.000E+03	5.507E-12	6.628E+07	2.964E+07	6.051E+07	
Disulfoton	298-04-4	-25	1.144	1.630E+01	8.00E+03	3.990E-06	1.959E-02	5.866E-06	4.800E+01	4.298E-09	2.372E+06	1.061E+06	2.166E+06	
Diuron	330-54-1	158	1.332	4.200E+01	4.30E+02	2.700E-06	2.253E-02	6.846E-06	2.580E+00	6.579E-08	6.064E+05	2.712E+05	5.536E+05	
Endosulfan (alpha+beta+sulfate)	115-29-7	106	1.745	5.100E-01	2.14E+03	1.120E-05	1.430E-02	3.490E-06	1.284E+01	2.875E-08	9.173E+05	4.102E+05	8.374E+05	
Endothall	145-73-3	144	1.431	2.100E+04	2.90E-01	2.590E-10	2.192E-02	7.165E-06	1.740E-03	4.472E-07	2.326E+05	1.040E+05	2.123E+05	
Endrin	72-20-8	392	1.7	2.500E-01	1.23E+04	7.520E-06	1.560E-02	3.640E-06	7.380E+01	3.780E-09	2.630E+06	1.131E+06	2.309E+06	
Epichlorohydrin	106-89-8	-48	1.1801	6.580E+04	1.23E+02	3.350E-05	8.600E-02	9.800E-06	7.380E-01	7.582E-06	5.649E+04	2.528E+04	5.157E+04	
Ethanol	64-17-5	-114.1	0.789	1.000E+06	1.00E+00	4.660E-06	2.021E-01	1.323E-05	6.000E-03	2.020E-05	3.461E+04	1.548E+04	3.159E+04	
Ethion	563-12-2	-13	1.22	6.000E-01	1.23E+04	6.900E-07	1.240E-02	4.810E-06	7.380E+01	6.662E-10	6.026E+06	2.695E+06	5.501E+06	
Ethoprop	13194-48-4	20	1.094	7.500E+02	9.40E+01	1.620E-07	2.346E-02	5.943E-06	5.640E-01	6.932E-08	5.907E+05	2.642E+05	5.393E+05	
Ethoxyethanol, 2-	110-80-5	-70	0.931	1.000E+06	1.60E+01	1.000E-08	9.470E-02	9.570E-06	9.600E-02	3.905E-07	2.747E+05	1.229E+05	2.508E+05	

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Table 4 - Technical Report
Chemical-Specific Values

Contaminants	CAS#	Values from Reference Sources										Calculated Values ***			
		MP °C	d (g/cm ³)	S (mg/L)	Koc (L/kg)	HLC (atm-m ³ /mol)	Di (cm ² /s)**	Dw (cm ² /s)**	Kd (L/kg)*	Da (cm ² /s)	Resident	Child	Worker	Volatilization Factor (m ³ /kg)	
Ethyl acetate	141-78-6	-83.6 SCDM	0.9003 SCDM	8.030E+04 SCDM	4.75E+00 SCDM	1.380E-04 SCDM	7.320E-02 CHEM9	9.660E-06 CHEM8	2.850E-02	1.708E-04	1.190E+04	5.323E+03	1.087E+04		
Ethyl acrylate	140-88-5	-71.2 HSDB	0.9234 HSDB	1.500E+04 HSDB	2.20E+01 HSDB	3.050E-04 HSDB	7.700E-02 CHEM9	8.600E-06 CHEM8	1.320E-01	2.191E-04	1.051E+04	4.899E+03	9.592E+03		
Ethyl chloride [or Chloroethane]	75-00-3	-138.7 SCDM	0.8902 SCDM	5.680E+03 SCDM	1.60E+01 SCDM	8.820E-03 SCDM	2.710E-01 CHEM9	1.150E-05 CHEM8	9.600E-02	1.974E-02	1.107E+03	4.950E+02	1.010E+03		
Ethyl dipropylthiocarbamate, S- [or EPTC]	759-94-4	-9.99 HSDB est.	0.9546 SCDM	3.700E+02 SCDM	1.45E+03 SCDM	1.070E-04 SCDM	3.442E-02 Calculated	6.351E-06 Calculated	8.700E+00	9.187E-07	1.623E+05	7.257E+04	1.481E+05		
Ethyl ether	60-29-7	-116.3 SCDM	0.7138 SCDM	5.680E+04 SCDM	6.50E+00 SCDM	3.300E-02 SCDM	7.400E-02 CHEM9	9.300E-06 CHEM9	3.900E-02	1.350E-02	1.339E+03	5.987E+02	1.222E+03		
Ethyl methacrylate	97-63-2	-75 HSDB	0.9135 SCDM	3.670E+03 SCDM	3.65E+01 SCDM	8.420E-04 SCDM	6.890E-02 Calculated	8.380E-06 Calculated	2.190E-01	3.895E-04	7.881E+03	3.525E+03	7.195E+03		
Ethyl p-nitrophenyl phenylphosphorothioate [or EPN]	2104-64-5	36 HSDB	1.27 CRC	3.110E+00 HSDB	5.35E+03 HSDB-GeoMean	1.300E-07 HSDB	1.514E-02 Calculated	5.467E-06 Calculated	3.210E+01	1.211E-09	4.469E+06	1.999E+06	4.079E+06		
Ethylbenzene	100-41-4	-94.9 SCDM	0.867 SCDM	1.690E+02 SCDM	3.63E+02 SCDM	7.880E-03 SCDM	7.500E-02 CHEM9	7.800E-06 CHEM8	2.178E+00	5.519E-04	6.621E+03	2.961E+03	6.044E+03		
Ethylene diamine	107-15-3	8.5 HSDB	0.898 HSDB	1.000E+06 HSDB	5.00E-02 HSDB est.	7.080E-08 HSDB	1.525E-01 CHEM9	1.410E-05 CHEM8	3.000E-04	1.128E-06	1.465E+05	6.551E+04	1.337E+05		
Ethylene glycol	107-21-1	-13 SCDM	1.1088 SCDM	1.000E+06 SCDM	4.60E-02 SCDM	6.000E-08 SCDM	1.080E-01 CHEM9	1.220E-05 CHEM9	2.760E-04	9.135E-07	1.627E+05	7.278E+04	1.486E+05		
Ethylene oxide	75-21-8	-111 HSDB	0.882 HSDB	1.000E+06 HSDB	1.60E+01 HSDB	1.480E-04 HSDB	1.040E-01 CHEM9	1.450E-05 CHEM8	9.600E-02	1.710E-04	1.189E+04	5.319E+03	1.086E+04		
Ethylene thiourea [or ETU]	98-45-7	203 EPI meas	1.0215 Calculated	2.000E+04 EPI meas	6.50E+00 EPI calc	1.290E-12 EPI calc	7.690E-02 CHEM9	9.280E-06 CHEM8	3.900E-02	4.238E-07	2.389E+05	1.068E+05	2.181E+05		
Ethylphthalyl ethylglycolate [or EPEG]	84-72-0	22.83 EPI calc	1.101 Calculated	2.168E+02 EPI calc	1.28E+03 EPI calc	3.670E-07 EPI calc	1.942E-02 Calculated	5.468E-06 Calculated	7.692E+00	6.452E-09	1.936E+06	8.660E+05	1.768E+06		
Famphur	52-85-7	999				NA	0.000E+00	0.000E+00			#	#	#		
Fenamiphos	22224-92-6	49.2 HSDB	1.15 HSDB	4.800E+02 HSDB-GeoMean	1.84E+02 HSDB-GeoMean	1.200E-09 HSDB	1.720E-02 Calculated	5.352E-06 Calculated	1.104E+00	2.825E-08	9.253E+05	4.138E+05	8.447E+05		
Fensulfothion	115-90-2	215.5 Howard&Meylan	1.202 HSDB	1.540E+03 HSDB	8.99E+01 HSDB-GeoMean	1.800E-10 HSDB	1.650E-02 Calculated	5.442E-06 Calculated	5.394E-01	5.404E-08	6.691E+05	2.992E+05	6.108E+05		
Fluometuron	2164-17-2	163.8 HSDB	1.39 HSDB	8.490E+01 HSDB-GeoMean	1.34E+02 HSDB-GeoMean	1.450E-09 HSDB	2.221E-02 Calculated	7.040E-06 Calculated	8.040E-01	4.951E-08	6.990E+05	3.126E+05	6.381E+05		

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Table 4 - Technical Report
Chemical-Specific Values

Contaminants	CAS#	Values from Reference Sources											Calculated Values ***		
		MP °C	d (g/cm ³)	S (mg/L)	Koc (L/kg)	HLC (atm-m ³ /mol)	Di (cm ² /s)**	Dw (cm ² /s)**	Kd (L/kg)*	Da (cm ² /s)	Resident	Child	Worker		
Fluoranthene	206-44-0	107.8 SCDM	1.252 SCDM	2.060E-01 SCDM	1.10E+05 SCDM	1.610E-05 SCDM	3.020E-02 CHEM9	6.350E-06 CHEM9	6.600E+02	1.670E-09	3.806E+06	1.702E+06	3.474E+06		
Fluorene	86-73-7	114.8 SCDM	1.203 SCDM	1.980E+00 SCDM	1.40E+04 SCDM	6.360E-05 SCDM	3.679E-02 Calculated	7.889E-06 Calculated	8.400E+01	6.136E-08	6.279E+05	2.808E+05	5.732E+05		
Fluoride	7782-41-4	-219.6 SCDM	1.5127 HSDB	4.200E+04 CRC	7.50E+04 SCDM	NA	2.995E-01 Calculated	2.194E-05 Calculated	4.500E+02	3.094E-10	#	#	#		
Fluoridone	58756-60-4	155 EPI,meas	1.381 Calculated	1.200E+01 EPI,meas	1.10E+05 EPI,calc	1.050E-08 EPI,calc	1.421E-02 Calculated	5.686E-06 Calculated	6.624E+02	5.498E-11	2.098E+07	9.381E+06	1.915E+07		
Fonofos	944-22-9	-9.99 HSDB est.	1.16 HSDB	1.300E+01 HSDB	6.71E+02 HSDB-GeoMean	5.400E-06 HSDB	2.236E-02 Calculated	6.096E-06 Calculated	4.026E+00	7.329E-08	5.745E+05	2.569E+05	5.245E+05		
Formaldehyde	50-00-0	-92 SCDM	0.815 SCDM	5.500E+05 SCDM	9.00E-01 SCDM	3.360E-07 SCDM	1.780E-01 CHEM9	1.980E-05 CHEM9	5.400E-03	2.432E-06	9.974E+04	4.460E+04	9.105E+04		
Formic acid	64-18-6	999			NA	0.000E+00	0.000E+00	0.000E+00			#	#	#		
Furfural	98-01-1	-36.5 SCDM	1.1594 SCDM	1.100E+05 SCDM	2.55E+00 SCDM	4.000E-06 SCDM	8.720E-02 CHEM9	1.040E-05 CHEM9	1.530E-02	7.179E-06	5.805E+04	2.596E+04	5.299E+04		
Glyphosate [or Roundup]	1071-83-6	189.5 EPI,meas	0.5 HSDB	1.200E+04 EPI,meas	1.88E+01 EPI,calc	9.566E-17 EPI,calc	4.370E-02 CHEM9	5.920E-06 CHEM9	1.128E-01	1.766E-07	3.701E+05	1.655E+05	3.379E+05		
Gross alpha radiation	14127-62-9	999			NA	0.000E+00	0.000E+00	0.000E+00			#	#	#		
Guthion [or Methyl azinphos]	86-50-0	73.5 SCDM	1.44 SCDM	2.090E+01 SCDM	4.70E+02 SCDM	1.500E-10 HSDB	1.950E-02 CHEM9	4.060E-06 CHEM9	2.820E+00	8.829E-09	1.655E+06	7.403E+05	1.511E+06		
Heptachlor	76-44-8	95.5 SCDM	1.57 SCDM	1.800E-01 SCDM	1.45E+06 SCDM	1.480E-03 HSDB	1.120E-02 CHEM9	5.690E-06 CHEM9	8.700E+03	4.168E-09	2.410E+06	1.078E+06	2.200E+06		
Heptachlor epoxide	1024-57-3	160 SCDM	1.5219 Calculated	2.000E-01 SCDM	8.00E+04 SCDM	9.500E-06 SCDM	1.320E-02 CHEM9	4.230E-06 CHEM9	4.800E+02	6.266E-10	6.214E+06	2.779E+06	5.673E+06		
Hexachloro-1,3-butadiene	87-68-3	-21 SCDM	1.556 SCDM	3.230E+00 SCDM	5.50E+04 SCDM	8.150E-03 SCDM	5.610E-02 CHEM9	6.160E-06 CHEM9	3.300E+02	3.025E-06	8.943E+04	3.999E+04	8.163E+04		
Hexachlorobenzene	118-74-1	231.8 SCDM	2.044 SCDM	5.000E-03 SCDM	5.50E+04 SCDM	1.320E-03 SCDM	5.420E-02 CHEM9	5.910E-06 CHEM9	3.300E+02	4.735E-07	2.260E+05	1.011E+05	2.063E+05		
Hexachlorocyclohexane, alpha- [or BHC, alpha-]	319-84-6	159.5 HSDB-GeoMean	1.87 HSDB	2.000E+00 SCDM	1.23E+03 SCDM	1.060E-05 SCDM	1.449E-02 Calculated	7.348E-06 Calculated	7.380E+00	5.110E-08	6.880E+05	3.077E+05	6.281E+05		
Hexachlorocyclohexane, beta- [BHC, beta-]	319-85-7	314.5 Howard&Meylan	1.89 SCDM	2.400E-01 SCDM	1.26E+03 SCDM	7.430E-07 SCDM	1.443E-02 Calculated	7.395E-06 Calculated	7.560E+00	9.186E-09	1.623E+06	7.258E+05	1.481E+06		

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Table 4 - Technical Report
Chemical-Specific Values

Contaminants	CAS#	Values from Reference Sources										Calculated Values ***			
		MP °C	d (g/cm ³)	S (mg/L)	Koc (L/kg)	HLC (atm-in ³ /mol)	Dj (cm ² /s)**	Dw (cm ² /s)**	Kd (L/kg)*	Da (cm ² /s)	Resident	Child	Worker		
Hexachlorocyclohexane, delta- [or BHC, delta-]	319-86-8	141.5 SCDM	1.89 Sumgate (c)	3.100E+01 SCDM	2.29E+03 SCDM	4.290E-07 SCDM	1.443E-02 Calculated	7.395E-06 Calculated	1.374E+01 Calculated	4.369E-09	2.353E+06	1.052E+06	2.148E+06		
Hexachlorocyclohexane, gamma- [or Lindane or BHC, gamma-]	56-89-9	112.5 SCDM	1.85 HSDB	6.800E+00 SCDM	1.07E+03 SCDM	1.400E-05 SCDM	1.420E-02 CHEM9	7.340E-06 CHEM9	6.420E+00 Calculated	7.376E-08	5.727E+05	2.561E+05	5.228E+05		
Hexachlorocyclohexane, technical [or BHC, technical]	608-73-1	999				NA	0.000E+00	0.000E+00			#	#	#		
Hexachlorocyclopentadiene	77-47-4	-9 SCDM	1.7019 SCDM	1.800E+00 SCDM	2.00E+05 SCDM	2.700E-02 SCDM	1.610E-02 CHEM9	7.210E-06 CHEM9	1.200E+03 Calculated	7.911E-07	1.749E+05	7.820E+04	1.596E+05		
Hexachlorodibenzo-p-dioxin (mixture)	19408-74-3	999				NA	0.000E+00	0.000E+00			#	#	#		
Hexachloroethane	67-72-1	187 SCDM	2.091 SCDM	5.000E+01 SCDM	1.78E+03 SCDM	3.890E-03 SCDM	2.500E-03 CHEM9	6.800E-06 CHEM9	1.068E+01 Calculated	1.969E-06	1.108E+05	4.957E+04	1.012E+05		
Hexachlorophene	70-30-4	166.5 EPI,meas	1.7633 Calculated	1.400E+02 EPI,meas	6.31E+05 EPI,calc	1.160E-08 EPI,calc	9.691E-03 Calculated	5.799E-06 Calculated	3.783E+03 Calculated	9.798E-12	4.969E+07	2.222E+07	4.536E+07		
Hexahydro-1,3,5-trinitro-1,3,5-triazine [or RDX]	121-82-4	205.5 SCDM	1.82 SCDM	5.980E+01 SCDM	7.89E+01 HSDB-GeoMean	6.300E-08 HSDB	2.086E-02 Calculated	8.499E-06 Calculated	4.734E-01 Calculated	9.910E-08	4.941E+05	2.210E+05	4.510E+05		
Hexane, n-	110-54-3	-95.3 SCDM	0.6548 SCDM	1.240E+01 SCDM	8.50E+03 SCDM	1.430E-02 SCDM	2.000E-01 CHEM9	7.770E-06 CHEM9	5.100E+01 Calculated	1.220E-04	1.408E+04	6.298E+03	1.286E+04		
Hexanone, 2- [or Methyl butyl ketone]	591-78-6	-55.5 SCDM	0.8113 SCDM	1.750E+04 SCDM	2.35E+01 SCDM	9.300E-05 HSDB	8.680E-02 Calculated	8.440E-06 Calculated	1.410E-01 Calculated	7.317E-05	1.818E+04	8.132E+03	1.660E+04		
Hexazinone	51235-04-2	116 HSDB	1.25 HSDB	3.300E+04 HSDB	2.21E+01 HSDB-GeoMean	2.000E-12 HSDB	2.093E-02 Calculated	6.284E-06 Calculated	1.326E-01 Calculated	1.715E-07	3.756E+05	1.680E+05	3.429E+05		
Hydrogen cyanide (as Cyanide)	74-90-8	999				NA	0.000E+00	0.000E+00			#	#	#		
Hydrogen sulfide	7783-06-4	999				NA	0.000E+00	0.000E+00			#	#	#		
Hydroquinone	123-31-9	170.5 HSDB-GeoMean	1.332 HSDB	7.270E+04 HSDB-GeoMean	2.12E+01 HSDB-GeoMean	1.320E-09 HSDB	6.853E-02 CHEM9	9.040E-06 CHEM9	1.272E-01 Calculated	2.535E-07	3.089E+05	1.382E+05	2.820E+05		
Indeno(1,2,3-cd)pyrene	193-39-5	161.5 SCDM	1.351 Sumgate (e)	2.200E-05 SCDM	3.45E+06 SCDM	1.600E-06 SCDM	2.010E-02 CHEM9	5.260E-06 CHEM9	2.070E+04 Calculated	5.007E-12	6.951E+07	3.109E+07	6.345E+07		
Iprodione	36734-19-7	999				NA	0.000E+00	0.000E+00			#	#	#		
Iron	7439-89-6	1535 SCDM	7.86 SCDM	0.000 HSDB	NA	NA	3.915E-01 Calculated	4.681E-05 Calculated	0.000 SCDM	2.971E-06	#	#	#		

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Table 4 - Technical Report
Chemical-Specific Values

Contaminants	CAS#	MP °C	Values from Reference Sources										Calculated Values ***		
			d (g/cm ³)	S (mg/L)	Koc (L/kg)	HLC (atm-m ³ /mol)	Di (cm ² /s)**	Dw (cm ² /s)**	Kd (L/kg)*	Da (cm ² /s)	Resident Volatilization Factor (m ³ /kg)	Child	Worker		
Isobutyl alcohol	78-83-1	-108 SCDM	0.8018 SCDM	8.500E+04 SCDM	5.50E+00 SCDM	1.180E-05 SCDM	1.423E-01 Calculated	1.004E-05 Calculated	3.300E-02 SCDM	2.804E-05	2.937E+04	1.314E+04	2.681E+04		
Isophorone	78-59-1	-8.1 SCDM	0.9295 SCDM	1.200E+04 SCDM	4.70E+01 SCDM	6.640E-06 SCDM	6.230E-02 CHEM9	6.760E-06 CHEM9	2.820E-01 SCDM	2.477E-06	9.882E+04	4.419E+04	9.021E+04		
Kepono	143-50-0	999			NA	0.000E+00	0.000E+00	0.000E+00			#	#	#		
Lead	7439-92-1	328 SCDM	11.3437 SCDM	0.000	NA	NA	1.122E-02 Calculated	2.658E-05 Calculated	0.000	1.688E-06	#	#	#		
Limonene	138-86-3	-95.5 HSDB	0.8402 HSDB	1.380E+01 EPI,meas	3.190E-02 EPI,meas	5.634E-02 Calculated	7.167E-06 Calculated	7.944E+00 Calculated	7.944E+00	4.735E-04	7.148E+03	3.197E+03	6.525E+03		
Linuron	330-55-2	93.5 HSDB	1.3588 Calculated	8.100E+01 HSDB	6.80E+02 HSDB-GeoMean	6.600E-08 HSDB	2.048E-02 Calculated	6.658E-06 Calculated	4.080E+00	1.082E-08	1.495E+06	6.688E+05	1.365E+06		
Lithium	7439-93-2	180.54 HSDB	NA	0.000 HSDB	NA	NA	0.000E+00 Calculated	0.000E+00 Calculated	0.000	0.000	#	#	#		
Malathion	121-75-5	2.8 SCDM	1.21 SCDM	1.430E+02 SCDM	6.50E+02 SCDM	4.890E-09 SCDM	1.507E-02 Calculated	5.243E-06 Calculated	3.900E+00	8.360E-09	1.701E+06	7.607E+05	1.563E+06		
Mancozeb	8018-01-7	999			NA	NA	0.000E+00	0.000E+00			#	#	#		
Maneb	12427-38-2	200 Howard&Meylan	1.92 HSDB	6.000E+00 Howard&Meylan	2.00E+03 HSDB	4.360E-09 HSDB	1.614E-02 Calculated	7.889E-06 Calculated	1.200E+01	4.152E-09	2.414E+06	1.080E+06	2.204E+06		
Manganese	7439-96-5	1244 SCDM	7.2 SCDM	0.000 HSDB	NA	NA	3.856E-01 Calculated	4.485E-05 Calculated	0.000 SCDM	2.847E-06	#	#	#		
Mercuric chloride (as Mercury)	7487-94-7	999			NA	NA	0.000E+00	0.000E+00			#	#	#		
Mercury	7439-97-6	-38.9 SCDM	13.534 SCDM	5.600E-02 HSDB	NA	1.140E-02 SCDM	3.070E-02 CHEM9	6.300E-06 CHEM9	5.200E+01 SCDM	1.468E-05	4.064E+04	1.817E+04	3.710E+04		
Merphos	150-50-5	83 Howard&Meylan	1 HSDB	3.500E-03 Howard&Meylan	6.20E+04 HSDB	2.270E-05 HSDB	1.877E-02 Calculated	4.969E-06 Calculated	3.720E+02	2.586E-09	3.059E+06	1.368E+06	2.792E+06		
Metaxyl	57837-19-1	999			NA	NA	0.000E+00	0.000E+00			#	#	#		
Methacrylonitrile	126-98-7	-35.8 SCDM	0.8001 SCDM	2.540E+04 SCDM	3.40E+00 SCDM	2.470E-04 SCDM	1.531E-01 Calculated	1.065E-05 Calculated	2.040E-02	6.757E-04	5.983E+03	2.676E+03	5.462E+03		
Methamidophos	10265-92-6	44.5 HSDB	1.31 HSDB	2.000E+06 HSDB	3.85E+00 HSDB	8.700E-10 HSDB	4.412E-02 Calculated	9.159E-06 Calculated	2.310E-02	4.730E-07	2.262E+05	1.011E+05	2.064E+05		

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Table 4 - Technical Report
Chemical-Specific Values

Contaminants	CAS#	Values from Reference Sources										Calculated Values ***				
		MP °C	d (g/cm³)	S (mg/L)	Koc (L/kg)	HLC (atm-m³/mol)	Di (cm²/s)**	Dw (cm²/s)**	Kd (L/kg)*	Da (cm²/s)	Resident Volatilization Factor (m³/kg)	Child	Worker	#	#	#
Methanol	67-56-1	-97.6 SCDM	0.7914 SCDM	1.000E+06 SCDM	2.00E-01 SCDM	4.560E-06 SCDM	1.500E-01 CHEM9	1.640E-05 CHEM9	1.200E-03	1.575E-05	3.919E+04	1.752E+04	3.577E+04			
Methidathion	950-37-8	39.5 HSDB	1.495 HSDB	2.160E+02 HSDB-GeoMean	1.98E+01 HSDB-GeoMean	7.170E-09 HSDB	1.528E-02 Calculated	6.277E-06 Calculated	1.188E-01	1.832E-07	3.634E+05	1.625E+05	3.317E+05			
Methomyl	16752-77-5	78 SCDM	1.2946 SCDM	5.800E+04 SCDM	2.15E+00 SCDM	3.800E-02 SCDM	4.610E-02 CHEM9	6.070E-06 CHEM9	1.290E-02	9.383E-03	1.606E+03	7.181E+02	1.466E+03			
Methoxy-5-nitroaniline, 2-	99-59-2	118 HSDB	1.2068 HSDB	2.210E+03 HSDB	9.72E+01 HSDB-GeoMean	1.250E-08 HSDB	3.617E-02 Calculated	7.849E-06 Calculated	5.832E-01	7.438E-08	5.703E+05	2.551E+05	5.206E+05			
Methoxychlor	72-43-5	87 SCDM	1.41 SCDM	4.500E-02 SCDM	1.00E+05 SCDM	1.580E-05 SCDM	1.760E-02 CHEM9	3.850E-06 CHEM9	6.000E+02	1.053E-09	4.793E+06	2.144E+06	4.376E+06			
Methoxyethanol, 2-	109-86-4	999				NA	0.000E+00	0.000E+00			#	#	#			
Methyl acetate	79-20-9	-98 HSDB	0.9342 HSDB	2.430E+05 HSDB	3.00E+01 HSDB	5.110E-04 HSDB	1.040E-01 CHEM9	1.000E-05 CHEM9	1.800E-01	4.090E-04	7.691E+03	3.439E+03	7.020E+03			
Methyl acrylate	96-33-3	-76.5 HSDB	0.9561 HSDB	5.590E+04 HSDB-GeoMean	1.10E+01 HSDB	1.970E-04 HSDB	9.760E-02 CHEM9	1.020E-05 CHEM9	6.600E-02	2.511E-04	9.816E+03	4.390E+03	8.960E+03			
Methyl chloride [or Chloromethane]	74-87-3	-97.7 SCDM	0.911 SCDM	5.330E+03 SCDM	6.30E+00 SCDM	8.820E-03 SCDM	1.260E-01 CHEM9	6.500E-06 CHEM9	3.780E-02	1.177E-02	1.434E+03	6.412E+02	1.309E+03			
Methyl ethyl ketone [or Butanone, 2-]	78-93-3	-87 SCDM	0.8054 SCDM	2.230E+05 SCDM	1.90E+00 SCDM	5.690E-05 SCDM	8.080E-02 CHEM9	9.800E-06 CHEM9	1.140E-02	9.038E-05	1.636E+04	7.318E+03	1.494E+04			
Methyl isobutyl ketone [or MIBK]	108-10-1	-84 SCDM	0.7978 SCDM	1.900E+04 SCDM	1.50E+01 SCDM	1.400E-04 SCDM	7.500E-02 CHEM9	7.800E-06 CHEM9	9.000E-02	1.203E-04	1.418E+04	6.342E+03	1.295E+04			
Methyl methacrylate	80-62-6	-48 SCDM	0.944 SCDM	1.500E+04 SCDM	2.25E+01 SCDM	3.370E-04 SCDM	7.700E-02 CHEM9	8.600E-06 CHEM9	1.350E-01	2.388E-04	1.007E+04	4.501E+03	9.189E+03			
Methyl parathion [or Parathion, methyl]	298-00-0	37.5 SCDM	1.358 SCDM	5.500E+01 SCDM	7.00E+02 SCDM	1.000E-07 SCDM	2.140E-02 CHEM9	5.420E-06 CHEM9	4.200E+00	9.089E-09	1.631E+06	7.296E+05	1.489E+06			
Methyl tert-butyl ether [or MTBE]	1634-04-4	-109 HSDB	0.7405 HSDB	5.100E+04 HSDB	1.12E+01 HSDB	5.870E-04 HSDB	1.024E-01 CHEM9	1.050E-05 CHEM9	6.720E-02	7.648E-04	5.624E+03	2.515E+03	5.134E+03			
Methyl-4-chlorophenoxy acetic acid, 2- [or MCPA]	94-74-6	120 HSDB	1.56 HSDB	8.250E+02 HSDB	5.38E+01 HSDB-GeoMean	1.330E-09 HSDB	2.555E-02 Calculated	8.237E-06 Calculated	3.228E-01	1.238E-07	4.420E+05	1.977E+05	4.035E+05			
Methyl-5-nitroaniline, 2-	99-55-8	999				NA	0.000E+00	0.000E+00			#	#	#			
Methylaniline, 2-	95-53-4	-14.7 HSDB	1.008 HSDB	1.660E+04 HSDB	5.94E+01 HSDB-GeoMean	2.720E-06 HSDB	7.197E-02 Calculated	9.233E-06 Calculated	3.564E-01	1.065E-06	1.507E+05	6.739E+04	1.376E+05			

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Table 4 - Technical Report
Chemical-Specific Values

Contaminants	CAS#	Values from Reference Sources										Calculated Values ***			
		MP °C	d (g/cm ³)	S (mg/L)	Koc (L/kg)	HLC (atm-m ³ /mol)	Di (cm ² /s)**	Dw (cm ² /s)**	Kd (L/kg)*	Da (cm ² /s)	Resident Volatilization Factor (m ³ /kg)	Child	Worker		
Methylene bis(2-chloroaniline), 4,4-	101-14-4	110	1.44	1.390E+01	2.25E+01	4.060E-11	2.420E-02	4.500E-06	1.350E-01	1.216E-07	4.461E+05	1.995E+05	4.072E+05		
Methylene bromide	74-95-3	-52.5	2.4969	1.190E+04	2.29E+01	8.610E-04	2.533E-02	1.190E-05	1.374E-01	1.955E-04	1.113E+04	4.975E+03	1.016E+04		
Methylene chloride	75-09-2	-95.1	1.3266	1.300E+04	1.18E+01	2.190E-03	1.010E-01	1.170E-05	7.080E-02	2.573E-03	3.066E+03	1.371E+03	2.799E+03		
Methylmercury [for Mercury, methyl]	22967-92-6	999	3.1874	1.000E+03	5.37E+02	1.419E-02	1.562E-02	1.163E-05	3.222E+00	1.411E-04	1.309E+04	5.855E+03	1.195E+04		
Methylnaphthalene, 1-	90-12-0	-22	1.0202	2.580E+01	2.66E+03	2.600E-04	4.800E-02	7.840E-06	1.596E+01	1.700E-06	1.193E+05	5.334E+04	1.089E+05		
Methylnaphthalene, 2-	91-57-6	34.4	1.0058	2.460E+01	7.50E+03	5.180E-04	4.800E-02	7.840E-06	4.500E+01	1.205E-06	1.417E+05	6.336E+04	1.293E+05		
Methylphenol, 2- [or Cresol, o-]	95-48-7	29.8	1.135	2.600E+04	9.00E+01	1.200E-06	7.400E-02	8.300E-06	5.400E-01	3.854E-07	2.505E+05	1.120E+05	2.287E+05		
Methylphenol, 3- [or Cresol, m-]	105-39-4	11.8	1.0341	2.270E+04	8.50E+01	8.650E-07	7.400E-02	1.000E-05	5.100E-01	3.333E-07	2.694E+05	1.205E+05	2.459E+05		
Methylphenol, 4- [or Cresol, p-]	105-44-5	35.5	1.0185	2.150E+04	8.50E+01	7.920E-07	7.400E-02	1.000E-05	5.100E-01	3.139E-07	2.776E+05	1.241E+05	2.534E+05		
Metolachlor	51218-45-2	-62.1	1.12	5.300E+02	1.76E+02	9.000E-09	1.896E-02	5.483E-06	1.056E+00	3.043E-08	8.916E+05	3.987E+05	8.139E+05		
Metribuzin	21087-64-9	126	1.31	1.200E+03	4.70E+01	8.780E-02	2.533E-02	7.129E-06	2.820E-01	4.568E-03	2.301E+03	1.029E+03	2.101E+03		
Mevinphos	7786-34-7	12	1.25	6.000E+05	5.09E+01	3.900E-09	2.440E-02	6.747E-06	3.054E-01	1.062E-07	4.774E+05	2.135E+05	4.358E+05		
Mirex	2385-85-5	999				NA	0.000E+00	0.000E+00			#	#	#		
Molinate	2212-87-1	-9.99	1.063	9.700E+02	1.11E+02	4.100E-06	3.322E-02	6.818E-06	6.660E-01	4.449E-07	2.332E+05	1.043E+05	2.129E+05		
Molybdenum	7439-98-7	2610	10.2	0.000	NA	NA	3.040E-01	3.956E-05	0.000	2.511E-06	#	#	#		
Naled	300-76-5	26.9	1.96	2.000E+03	1.11E+02	5.000E-07	1.004E-02	6.430E-06	6.660E-01	6.760E-08	5.982E+05	2.675E+05	5.461E+05		
Naphthalene	91-20-3	80.2	1.0253	3.100E+01	2.00E+03	4.830E-04	5.900E-02	7.500E-06	1.200E+01	5.147E-06	6.856E+04	3.066E+04	6.259E+04		

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Table 4 - Technical Report
Chemical-Specific Values

Contaminants	CAS#	Values from Reference Sources										Calculated Values ***			
		MP °C	d (g/cm ³)	S (mg/L)	Koc (L/kg)	HLC (atm-m ³ /mol)	Di (cm ² /s)**	Dw (cm ² /s)**	Kd (L/kg)*	Da (cm ² /s)	Resident Volatilization Factor (m ³ /kg)	Child	Worker		
Naphthylamine, 2-	91-59-8	999		NA	0.000E+00	0.000E+00	0.000E+00	0.000E+00					#	#	#
Napropamide	15299-99-7	999		NA	0.000E+00	0.000E+00	0.000E+00						#	#	#
Nickel	7440-02-0	1455 SCDM	8.9 SCDM	0.000 HSDB	NA	3.933E-01 Calculated	4.895E-05 Calculated	6.500E+01 SCDM	4.773E-09				#	#	#
Nitrate	14797-55-8	308 HSDB	2.26 HSDB	9.210E+05 HSDB	NA	2.434E-01 Calculated	2.081E-05 Calculated	0.000	1.321E-06				#	#	#
Nitrate+Nitrite	NOCAS	999		NA	0.000E+00	0.000E+00	0.000E+00						#	#	#
Nitrite	14797-65-0	271 HSDB	2.26 HSDB	6.670E+05 HSDB	NA	3.001E-01 Calculated	2.489E-05 Calculated	0.000	1.580E-06				#	#	#
Nitroaniline, m-	99-09-2	114 SCDM	0.99 SCDM	1.200E+03 SCDM	5.16E+01 EPLcalc	1.400E-07 SCDM	7.844E-06 Calculated	3.098E-01	1.598E-07				3.890E+05	1.740E+05	3.551E+05
Nitroaniline, o-	88-74-4	71.2 SCDM	1.442 SCDM	2.950E+02 SCDM	6.50E+01 SCDM	1.810E-08 HSDB	8.000E-06 CHEM9	3.900E-01	1.095E-07				4.700E+05	2.102E+05	4.290E+05
Nitroaniline, p-	100-01-6	147 SCDM	1.424 SCDM	7.280E+02 SCDM	2.35E+01 SCDM	2.070E-09 SCDM	7.980E-06 CHEM9	1.410E-01	2.111E-07				3.385E+05	1.514E+05	3.090E+05
Nitrobenzene	98-95-3	5.7 SCDM	1.2037 SCDM	2.090E+03 SCDM	6.50E+01 SCDM	2.400E-05 SCDM	8.600E-06 CHEM9	3.900E-01	8.239E-06				5.419E+04	2.423E+04	4.946E+04
Nitrophenol, 4-	100-02-7	113.8 SCDM	1.479 SCDM	1.160E+04 SCDM	4.89E+01 SCDM	4.150E-10 SCDM	9.610E-06 CHEM9	2.834E-01	1.552E-07				3.948E+05	1.766E+05	3.604E+05
Nitroso-di-ethylamine, N-	55-18-5	-10 Howard&Meylan	0.9422 SCDM	9.300E+04 SCDM	2.95E+00 SCDM	3.630E-06 SCDM	9.125E-06 Calculated	1.770E-02	5.823E-06				6.446E+04	2.883E+04	5.884E+04
Nitroso-dimethylamine, N-	62-75-9	-9.99 HSDB est.	1.0059 SCDM	1.000E+06 SCDM	2.75E-01 SCDM	1.200E-06 SCDM	1.240E-05 CHEM9	1.650E-03	3.678E-06				8.110E+04	3.627E+04	7.404E+04
Nitroso-di-n-butylamine, N-	924-16-3	2.1 Howard&Meylan	0.9009 HSDB	1.270E+03 SCDM	2.35E+02 SCDM	3.160E-04 SCDM	6.831E-06 Calculated	1.410E+00	2.046E-05				3.440E+04	1.538E+04	3.140E+04
Nitroso-di-n-propylamine, N-	621-64-7	7 Howard&Meylan	0.916 HSDB	1.000E+04 HSDB	1.31E+02 HSDB	1.400E-06 HSDB	7.755E-06 Calculated	7.860E-01	2.543E-07				3.084E+05	1.379E+05	2.816E+05
Nitroso-diphenylamine, N-	86-30-6	66.5 SCDM	1.23 ATSDR	3.510E+01 SCDM	1.30E+03 SCDM	5.000E-06 SCDM	7.193E-06 Calculated	7.800E+00	4.569E-08				7.277E+05	3.254E+05	6.643E+05
Nitroso-N-methylethylamine, N-	10595-95-6	-9.99 HSDB est.	0.9448 HSDB	1.970E+04 SCDM	7.50E-01 SCDM	1.400E-06 HSDB	9.989E-06 Calculated	4.500E-03	4.544E-06				7.297E+04	3.263E+04	6.661E+04

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Table 4 - Technical Report
Chemical-Specific Values

Contaminants	Values from Reference Sources											Calculated Values ***			
	CAS#	MP °C	d (g/cm ³)	S (mg/L)	Koc (L/kg)	HLC (atm-m ³ /mol)	Di (cm ² /s)**	Dw (cm ² /s)**	Kd (L/kg)*	Da (cm ² /s)	Resident Volatilization Factor (m ³ /kg)	Child	Worker		
Nitrosopyrrolidine, N-	930-55-2	999		NA	0.000E+00	0.000E+00	0.000E+00				#	#	#		
Nitrotoluene, m-	99-08-1	15.5 HSDB	1.1581 HSDB	4.990E+02 HSDB-GeoMean	1.43E+02 HSDB	7.500E-05 HSDB	4.950E-02 CHEM9	8.220E-06 CHEM9	8.580E-01	8.514E-06	5.330E+04	2.384E+04	4.866E+04		
Nitrotoluene, o-	88-72-2	-9.5 HSDB	1.1622 HSDB	6.250E+02 HSDB-GeoMean	2.30E+02 HSDB-GeoMean	5.600E-05 HSDB	4.760E-02 CHEM9	8.670E-06 CHEM9	1.380E+00	3.970E-06	7.806E+04	3.491E+04	7.126E+04		
Nitrotoluene, p-	99-99-0	51.6 SCDM	1.1038 SCDM	9.360E+01 SCDM	2.30E+02 SCDM	2.090E-07 SCDM	4.780E-02 CHEM9	8.610E-06 CHEM9	1.380E+00	5.168E-08	6.842E+05	3.060E+05	6.246E+05		
Nonylphenol	25154-52-3	999	0.95 HSDB	6.350E+00 Meyland,PersCom	6.00E+04 HSDB	1.100E-06 HSDB	2.833E-02 Calculated	5.781E-06 Calculated	3.600E+02	2.909E-10	9.119E+06	4.078E+06	8.324E+06		
Norflurazon	27314-13-2	999		NA	0.000E+00	0.000E+00					#	#	#		
Octahydro-1,3,5,7-tetranitro- tetrazocine [for HMX]	2891-41-0	999		NA	0.000E+00	0.000E+00					#	#	#		
Octamethylpyrophosphoramide	152-16-9	17 SCDM	1.1343 SCDM	1.000E+06 SCDM	3.10E-01 SCDM	6.300E-17 HSDB	1.864E-02 Calculated	5.499E-06 Calculated	1.860E-03	3.428E-07	2.658E+05	1.188E+05	2.426E+05		
Oryzalin	19044-88-3	999		NA	0.000E+00	0.000E+00					#	#	#		
Oxadiazon	19666-30-9	999		NA	0.000E+00	0.000E+00					#	#	#		
Oxamyl	23135-22-0	109 HSDB-GeoMean	0.98 HSDB	2.800E+05 HSDB	8.89E+00 HSDB	2.370E-10 HSDB	2.811E-02 Calculated	5.908E-06 Calculated	5.334E-02	2.447E-07	3.144E+05	1.406E+05	2.870E+05		
Paraquat	1910-42-5	300 Merck	1.24 HSDB	1.000E+06 HSDB	1.24E+05 HSDB-GeoMean	1.000E-09 HSDB	3.121E-02 Calculated	7.504E-06 Calculated	7.440E+02	6.411E-11	1.943E+07	8.688E+06	1.773E+07		
Parathion	56-38-2	6.1 SCDM	1.2681 SCDM	6.540E+00 SCDM	6.00E+03 SCDM	5.650E-07 SCDM	1.700E-02 CHEM9	5.790E-06 CHEM9	3.600E+01	1.599E-09	3.889E+06	1.739E+06	3.550E+06		
PCBs [for Aroclor mixture]	1336-36-3	357.1 HSDB-GeoMean	1.44 HSDB	7.000E-02 SCDM	8.50E+05 SCDM	2.600E-03 SCDM	1.750E-02 CHEM9	8.000E-06 CHEM9	5.100E+03	1.950E-08	1.114E+06	4.981E+05	1.017E+06		
Pebulate	1114-71-2	-9.99 HSDB est.	0.9458 HSDB	6.000E+01 HSDB	5.05E+02 HSDB-GeoMean	1.600E-04 HSDB	3.149E-02 Calculated	6.050E-06 Calculated	3.030E+00	3.528E-06	8.281E+04	3.703E+04	7.560E+04		
Pendimethalin	40487-42-1	56.5 HSDB	1.19 HSDB	3.000E-01 HSDB	2.40E+03 HSDB	5.890E-06 HSDB-GeoMean	1.863E-02 Calculated	5.719E-06 Calculated	1.440E+01	1.903E-08	1.127E+06	5.042E+05	1.029E+06		
Pentachlorobenzene	608-93-5	86 SCDM	1.8342 SCDM	1.330E+00 SCDM	1.74E+04 SCDM	7.100E-04 SCDM	5.700E-02 CHEM9	6.300E-06 CHEM9	1.044E+02	8.463E-07	1.691E+05	7.561E+04	1.543E+05		

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Table 4 - Technical Report
Chemical-Specific Values

Contaminants	CAS#	Values from Reference Sources											Calculated Values ***			
		MP °C	d (g/cm ³)	S (mg/L)	Koc (L/kg)	HLC (atm-m ³ /mol)	Di (cm ² /s)**	Dw (cm ² /s)**	Kd (L/kg)*	Da (cm ² /s)	Resident	Child	Worker	Volatilization Factor (m ³ /kg)		
Pentachloronitrobenzene	82-68-8	144 SCDM	1.718 SCDM	5.500E-01 SCDM	3.65E+04 SCDM	3.800E-04 SCDM	2.140E-02 CHEM9	4.240E-06 CHEM9	2.190E+02	8.120E-08	5.458E+05	2.441E+05	4.983E+05			
Pentachlorophenol	87-86-5	174 SCDM	1.978 SCDM	1.950E+03 SCDM	5.92E+02 SCDM	2.440E-08 SCDM	5.600E-02 CHEM9	6.100E-06 CHEM9	3.562E+00	1.142E-08	1.455E+06	6.509E+05	1.329E+06			
Perchlorate	7601-90-3	193.6 EPI,meas	1.6 HSDb	1.000E+06 EPI,calc	4.86E+01 EPI,calc	7.336E-19 EPI,calc	6.484E-02 Calculated	1.266E-05 Calculated	2.918E-01	2.052E-07	3.434E+05	1.536E+05	3.135E+05			
Permethrin	52845-53-1	34.5 HSDb	1.23 HSDb-GeoMean	6.000E-02 EPI,meas	1.78E+05 EPI,calc	2.510E-08 HSDb	1.209E-02 Calculated	4.783E-06 Calculated	1.070E+03	2.898E-11	2.889E+07	1.292E+07	2.637E+07			
Phenanthrene	85-01-8	99.2 SCDM	0.98 SCDM	1.150E+00 SCDM	2.95E+04 SCDM	2.330E-05 SCDM	3.330E-02 CHEM9	7.470E-06 CHEM9	1.770E+02	9.898E-09	1.568E+06	7.013E+05	1.432E+06			
Phenol	108-95-2	40.9 SCDM	1.0545 SCDM	8.280E+04 SCDM	2.85E+01 SCDM	3.970E-07 SCDM	8.200E-02 CHEM9	9.100E-06 CHEM9	1.710E-01	4.756E-07	2.255E+05	1.009E+05	2.059E+05			
Phenylenediamine, p-	106-50-3	146 HSDb	1.0096 Surrogate (d)	3.800E+04 HSDb	1.60E+01 HSDb	6.700E-10 HSDb	6.960E-02 CHEM9	9.240E-06 CHEM9	9.600E-02	2.998E-07	2.841E+05	1.270E+05	2.593E+05			
Phenylphenol, 2-	90-43-7	56.5 HSDb	1.213 HSDb	7.000E+02 HSDb	4.38E+02 HSDb-GeoMean	5.230E-08 HSDb	3.552E-02 Calculated	7.817E-06 Calculated	2.628E+00	1.968E-08	1.109E+06	4.959E+05	1.012E+06			
Phorate	298-02-2	-42.9 HSDb	1.16 SCDM	5.000E+01 SCDM	5.50E+03 SCDM	4.400E-06 HSDb	2.190E-02 CHEM9	5.390E-06 CHEM9	3.300E+01	7.393E-09	1.809E+06	8.090E+05	1.651E+06			
Phosmet	732-11-6	71.9 HSDb	1.03 HSDb	2.320E+01 HSDb-GeoMean	7.98E+02 HSDb-GeoMean	8.380E-09 HSDb	1.713E-02 Calculated	4.876E-06 Calculated	4.788E+00	6.397E-09	1.945E+06	8.697E+05	1.775E+06			
Phosphine	7603-51-2	999			NA	NA	0.000E+00	0.000E+00			#	#	#			
Phthalic anhydride	85-44-9	130.8 SCDM	1.527 SCDM	6.200E+03 SCDM	3.60E+01 HSDb	1.630E-08 SCDM	7.100E-02 CHEM9	8.600E-06 CHEM9	2.160E-01	1.808E-07	3.656E+05	1.636E+05	3.340E+05			
Picloram	1918-02-1	999			NA	NA	0.000E+00	0.000E+00			#	#	#			
Potassium cyanide	151-50-8	999			NA	NA	0.000E+00	0.000E+00			#	#	#			
Profluralin	26399-36-0	999			NA	NA	0.000E+00	0.000E+00			#	#	#			
Prometon	1610-18-0	91.5 HSDb	1.088 HSDb	7.500E+02 HSDb	4.69E+02 HSDb-GeoMean	9.100E-10 HSDb	2.584E-02 Calculated	6.189E-06 Calculated	2.814E+00	1.350E-08	1.339E+06	5.987E+05	1.222E+06			
Prometryn	7287-19-6	119 HSDb	1.15 HSDb	4.800E+01 HSDb	5.14E+02 HSDb-GeoMean	1.300E-08 HSDb	2.304E-02 Calculated	6.139E-06 Calculated	3.084E+00	1.244E-08	1.394E+06	6.236E+05	1.273E+06			

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Table 4 - Technical Report
Chemical-Specific Values

Contaminants	CAS#	Values from Reference Sources										Calculated Values ***		
		MP °C	d (g/cm ³)	S (mg/L)	Koc (L/kg)	HLC (atm-m ³ /mol)	Dj (cm ² /s)**	Dw (cm ² /s)**	Kd (L/kg)*	Da (cm ² /s)	Resident	Child	Worker	
Pronamide	23950-58-5	999			NA	0.000E+00	0.000E+00	0.000E+00				#	#	#
Propachlor	1918-16-7	71.4 HSDB-GeoMean	1.242 HSDB	6.130E+02 HSDB	1.89E+02 HSDB-GeoMean	1.090E-07 HSDB	2.637E-02 Calculated	6.955E-06 Calculated	1.134E+00	4.087E-08	7.694E+05	3.441E+05	7.024E+05	
Propanil	709-98-8	87 HSDB	1.054 HSDB	2.250E+02 HSDB-GeoMean	1.81E+02 HSDB-GeoMean	4.500E-09 HSDB	2.739E-02 Calculated	6.191E-06 Calculated	1.086E+00	3.337E-08	8.515E+05	3.808E+05	7.773E+05	
Propargite	2312-35-8	999			NA	0.000E+00	0.000E+00	0.000E+00			#	#	#	
Propazine	139-40-2	213 HSDB	1.162 HSDB	6.600E+00 HSDB-GeoMean	2.66E+02 HSDB-GeoMean	1.330E-11 HSDB	2.439E-02 Calculated	6.357E-06 Calculated	1.596E+00	2.379E-08	1.008E+06	4.509E+05	9.205E+05	
Proptham	122-42-9	999			NA	0.000E+00	0.000E+00	0.000E+00			#	#	#	
Propiconazole	60207-90-1	999			NA	0.000E+00	0.000E+00	0.000E+00			#	#	#	
Propionic acid, 2-(2-methyl-4-chlorophenoxy) [or MCPP]	93-65-2	337 HSDB	1.5082 Calculated	7.340E+02 HSDB	8.43E+00 HSDB-GeoMean	1.820E-08 HSDB	2.373E-02 Calculated	7.751E-06 Calculated	5.058E-02	3.330E-07	2.695E+05	1.205E+05	2.460E+05	
Propylene glycol	57-55-6	-59 HSDB	1.0361 CRC	1.000E+06 HSDB	4.60E-02 Surrogate (w)	1.310E-10 HSDB	9.300E-02 CHEM9	1.020E-05 CHEM9	2.760E-04	6.460E-07	1.935E+05	8.654E+04	1.767E+05	
Propylene oxide	75-56-9	-112.13 HSDB	0.8304 HSDB	4.890E+05 HSDB-GeoMean	1.04E+01 HSDB-GeoMean	8.300E-05 HSDB	1.040E-01 CHEM9	1.000E-05 CHEM9	6.240E-02	1.160E-04	1.444E+04	6.457E+03	1.318E+04	
Pydrin [or Fenvalerate]	51630-58-1	59.6 Howard&Meylan	1.17 HSDB	1.000E+00 HSDB	9.85E+03 HSDB-GeoMean	1.190E-07 HSDB	1.134E-02 Calculated	4.450E-06 Calculated	5.910E+01	5.270E-10	6.776E+06	3.030E+06	6.185E+06	
Pyrene	129-00-0	151.2 SCDM	1.271 SCDM	1.350E-01 SCDM	1.05E+05 SCDM	1.100E-05 SCDM	2.770E-02 Calculated	7.248E-06 Calculated	6.300E+02	1.129E-09	4.629E+06	2.070E+06	4.225E+06	
Pyridine	110-86-1	-41.6 SCDM	0.9819 SCDM	1.000E+06 SCDM	4.55E+00 SCDM	8.800E-06 SCDM	9.100E-02 CHEM9	7.600E-06 CHEM9	2.730E-02	1.411E-05	4.140E+04	1.852E+04	3.780E+04	
Quinoline	91-22-5	-14.78 SCDM	1.09 HSDB	6.100E+03 SCDM	1.84E+03 EPI,calc	2.700E-06 SCDM	5.390E-02 Calculated	8.651E-06 Calculated	1.102E+01	3.352E-08	8.495E+05	3.799E+05	7.755E+05	
Radium, 226 and 228 (combined)	7440-14-4	999			NA	0.000E+00	0.000E+00	0.000E+00			#	#	#	
Resmethrin	10453-86-8	45.5 HSDB	0.963 HSDB-GeoMean	1.000E+00 HSDB	1.41E+05 HSDB-GeoMean	5.560E-06 HSDB	1.632E-02 Calculated	4.505E-06 Calculated	8.460E+02	2.680E-10	9.500E+06	4.249E+06	8.672E+06	
Ronnel	299-84-3	41 SCDM	1.44 SCDM	1.080E+00 SCDM	9.50E+04 SCDM	3.200E-05 HSDB	1.437E-02 Calculated	5.915E-06 Calculated	5.700E+02	1.827E-09	3.639E+06	1.627E+06	3.321E+06	

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Table 4 - Technical Report
Chemical-Specific Values

Contaminants	CAS#	Values from Reference Sources											Calculated Values ***				
		MP °C	d (g/cm³)	S (mg/L)	Koc (L/kg)	HLC (atm-m³/mol)	Di (cm²/s)**	Dw (cm²/s)**	Kd (L/kg)*	Da (cm²/s)	Resident Volatilization Factor (m³/kg)	Child	Worker				
Rotenone	83-79-4	999		NA	0.000E+00	0.000E+00	0.000E+00	0.000E+00						#	#	#	#
Selenious acid (as Selenium)	7783-00-8	999		NA	0.000E+00	0.000E+00	0.000E+00							#	#	#	#
Selenium	7782-49-2	217 SCDM	4.81 SCDM	0.000 HSDB	NA	2.674E-01 Calculated	2.811E-05 Calculated	5.000E+00 SSG	3.499E-08	#	#	#	#	#	#	#	#
Silver	7440-22-4	962 SCDM	10.49 SCDM	0.000 HSDB	NA	2.982E-02 Calculated	3.750E-05 Calculated	8.300E+00 SCDM	2.834E-08	#	#	#	#	#	#	#	#
Simazine	122-34-9	226 HSDB-GeoMean	1.33 HSDB	6.200E+00 HSDB	3.93E+02 HSDB-GeoMean	3.400E-09 SCDM	3.050E-02 CHEM9	6.280E-06 CHEM9	2.358E+00 SCDM	1.631E-08	1.218E+06	5.446E+05	1.112E+06	#	#	#	#
Sodium	7440-23-5	999		NA	0.000E+00	0.000E+00	0.000E+00							#	#	#	#
Sodium cyanide (as Cyanide)	143-33-9	999		NA	0.000E+00	0.000E+00	0.000E+00							#	#	#	#
Strontium	7440-24-6	769 SCDM	2.6 SCDM	0.000 HSDB	NA	2.025E-01 Calculated	1.839E-05 Calculated	0.000 SCDM	1.168E-06	#	#	#	#	#	#	#	#
Strychnine	57-24-9	287 SCDM	1.36 SCDM	1.600E+02 SCDM	8.00E+01 SCDM	7.600E-14 SCDM	1.600E-02 CHEM9	4.640E-06 CHEM9	4.800E-01 SCDM	5.078E-08	6.902E+05	3.087E+05	6.301E+05	#	#	#	#
Styrene	100-42-5	-31 SCDM	0.906 SCDM	3.100E+02 SCDM	8.00E+02 SCDM	2.750E-03 SCDM	7.100E-02 CHEM9	8.000E-06 CHEM9	4.800E+00 SCDM	8.667E-05	1.671E+04	7.471E+03	1.525E+04	#	#	#	#
Sulfate	14808-79-8	999		NA	0.000E+00	0.000E+00	0.000E+00							#	#	#	#
Tebuthiuron	34014-18-1	999		NA	0.000E+00	0.000E+00	0.000E+00							#	#	#	#
Temephos	3383-96-8	999		NA	0.000E+00	0.000E+00	0.000E+00							#	#	#	#
Terbacil	5902-51-2	176 HSDB	1.34 HSDB	7.100E+02 HSDB	4.58E+01 HSDB-GeoMean	1.200E-10 HSDB	2.472E-02 Calculated	7.179E-06 Calculated	2.748E-01 SCDM	1.216E-07	4.460E+05	1.995E+05	4.071E+05	#	#	#	#
Terbufos	13071-79-9	-29.2 HSDB	1.105 HSDB	1.500E+01 HSDB	2.40E+03 HSDB	2.400E-05 HSDB	1.869E-02 Calculated	5.386E-06 Calculated	1.440E+01 SCDM	6.994E-08	5.881E+05	2.630E+05	5.369E+05	#	#	#	#
Terbutryn	886-50-0	104 EPI,meas	1.115 CRC	2.500E+01 EPI,meas	6.35E+02 EPI,calc	4.419E-07 EPI,calc	2.337E-02 Calculated	6.026E-06 Calculated	3.812E+00 SCDM	1.555E-08	1.247E+06	5.579E+05	1.139E+06	#	#	#	#
Tetrachlorobenzene, 1,2,4,5-	95-94-3	139.5 SCDM	1.858 SCDM	5.950E-01 SCDM	5.60E+03 HSDB	2.580E-03 SCDM	2.110E-02 CHEM9	8.750E-06 CHEM9	3.360E+01 SCDM	3.528E-06	8.281E+04	3.703E+04	7.559E+04	#	#	#	#

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Table 4 - Technical Report
Chemical-Specific Values

Contaminants	CAS#	Values from Reference Sources										Calculated Values ***			
		MP °C	d (g/cm ³)	S (mg/L)	Koc (L/kg)	HLC (atm-m ³ /mol)	Dj (cm ² /s)**	Dw (cm ² /s)**	Kd (L/kg)*	Da (cm ² /s)	Resident	Child	Worker	Volatilization Factor (m ³ /kg)	
Tetrachloroethane, 1,1,1,2-	630-20-6	-70.2 SCDM	1.5406 SCDM	1.100E+03 SCDM	1.45E+02 SCDM	2.420E-03 SCDM	7.100E-02 CHEM9	7.900E-06 CHEM9	8.700E-01	3.798E-04	7.983E+03	3.570E+03	7.287E+03		
Tetrachloroethane, 1,1,2,2-	79-34-5	-43.8 SCDM	1.5953 SCDM	2.970E+03 SCDM	9.35E+01 SCDM	3.450E-04 SCDM	7.100E-02 CHEM9	7.900E-06 CHEM9	5.610E-01	8.070E-05	1.731E+04	7.743E+03	1.581E+04		
Tetrachloroethene [or PCE]	127-18-4	-22.3 SCDM	1.6227 SCDM	2.000E+02 SCDM	1.55E+02 SCDM	1.840E-02 SCDM	7.200E-02 CHEM9	8.200E-06 CHEM9	9.300E-01	2.467E-03	3.131E+03	1.400E+03	2.858E+03		
Tetrachlorophenol, 2,3,4,5-	58-90-2	70 SCDM	1.839 HSDB	1.000E+02 SCDM	2.80E+02 SCDM	4.390E-06 SCDM	2.170E-02 CHEM9	7.100E-06 CHEM9	1.680E+00	1.422E-07	4.124E+05	1.844E+05	3.765E+05		
Tetraethyl dithiopyrophosphate	3689-24-5	88 HSDB	1.196 SCDM	2.500E+01 SCDM	7.40E+02 HSDB	2.900E-06 HSDB	9.100E-02 CHEM9	4.020E-06 CHEM9	4.440E+00	1.326E-07	4.271E+05	1.910E+05	3.899E+05		
Thallium	7440-28-0	303.5 SCDM	12 SCDM	0.000 HSDB	NA	NA	1.123E-02 Calculated	2.770E-05 Calculated	7.100E+01	2.473E-09	#	#	#		
Thiocyanomethylthio-benzothiazole, 2- [or TCMTB]	21564-17-0	999				NA	0.000E+00	0.000E+00			#	#	#		
Thiram	137-26-8	155.6 SCDM	1.29 HSDB	3.000E+01 SCDM	6.70E+02 HSDB	1.820E-07 HSDB	2.430E-02 CHEM9	5.650E-06 CHEM9	4.020E+00	1.105E-08	1.480E+06	6.617E+05	1.351E+06		
Tin	7440-31-5	231.9 HSDB	5.75 HSDB	0.000 HSDB	NA	NA	3.155E-02 Calculated	2.468E-05 Calculated	0.000	1.567E-06	#	#	#		
Toluene	108-88-3	-94.9 SCDM	0.8669 SCDM	5.260E+02 SCDM	1.82E+02 SCDM	6.640E-03 SCDM	8.700E-02 CHEM9	8.600E-06 CHEM9	1.092E+00	1.015E-03	4.883E+03	2.184E+03	4.457E+03		
Toluene-2,4-diamine	95-80-7	999				NA	0.000E+00	0.000E+00			#	#	#		
Toluidine, p-	106-49-0	43.7 SCDM	0.9616 SCDM	7.820E+02 SCDM	2.40E+01 SCDM	7.220E-06 HSDB	6.976E-02 CHEM9	9.430E-06 CHEM9	1.440E-01	4.753E-06	7.134E+04	3.190E+04	6.512E+04		
Total dissolved solids [or TDS]	C-010	999				NA	0.000E+00	0.000E+00			#	#	#		
Toxaphene	8001-35-2	76.5 HSDB-GeoMean	1.65 HSDB	7.400E-01 SCDM	2.55E+05 SCDM	6.000E-06 SCDM	1.160E-02 CHEM9	4.340E-06 CHEM9	1.530E+03	1.174E-10	1.436E+07	6.421E+06	1.311E+07		
Triallate	2303-17-5	29.5 HSDB-GeoMean	1.273 HSDB	4.000E+00 HSDB	2.22E+03 HSDB	1.930E-05 HSDB	1.630E-02 Calculated	5.674E-06 Calculated	1.332E+01	5.390E-08	6.699E+05	2.996E+05	6.116E+05		
Tributyltin oxide	56-35-9	-9.99 HSDB ent	1.17 HSDB	8.940E+00 HSDB-GeoMean	9.08E+04 HSDB	1.260E-07 HSDB	7.370E-03 Calculated	3.607E-06 Calculated	5.448E+02	4.575E-11	2.300E+07	1.028E+07	2.099E+07		
Trichloro-1,2,2-trifluoroethane, 1,1,2- [or CFC 113]	76-13-1	-35 SCDM	1.5635 SCDM	1.700E+02 SCDM	3.80E+02 SCDM	4.810E-01 SCDM	2.880E-02 CHEM9	8.070E-06 CHEM9	2.280E+00	4.950E-03	2.211E+03	9.887E+02	2.018E+03		

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Table 4 - Technical Report
Chemical-Specific Values

Contaminants	CAS#	Values from Reference Sources										Calculated Values ***		
		MP °C	d (g/cm ³)	S (mg/L)	Koc (L/kg)	HLC (atm-m ³ /mol)	Di (cm ² /s)**	Dw (cm ² /s)**	Kd (L/kg)*	Da (cm ² /s)	Resident	Child	Worker	
Trichloroacetic acid	76-03-9	57.5	1.6126	6.300E+06	1.00E+00	2.400E-08	3.310E-02	9.502E-06	6.000E-03	5.855E-07	2.033E+05	9.091E+04	1.856E+05	
Trichlorobenzene, 1,2,3-	87-61-6	52.6	1.69	1.630E+01	1.55E+03	1.250E-03	3.470E-02	6.770E-06	9.300E+00	1.007E-05	4.900E+04	2.192E+04	4.474E+04	
Trichlorobenzene, 1,2,4-	120-82-1	17	1.459	3.460E+01	1.78E+03	1.420E-03	3.000E-02	8.230E-06	1.068E+01	8.628E-06	5.295E+04	2.368E+04	4.834E+04	
Trichlorobenzene, 1,3,5-	108-70-3	63.5	1.3665	5.800E+00	9.91E+03	1.900E-03	3.470E-02	6.770E-06	5.946E+01	2.418E-06	1.000E+05	4.473E+04	9.131E+04	
Trichloroethane, 1,1,1- [or Methyl chloroform]	71-55-6	-30.4	1.339	1.330E+03	1.10E+02	1.720E-02	7.800E-02	8.800E-06	6.600E-01	3.280E-03	2.716E+03	1.215E+03	2.479E+03	
Trichloroethane, 1,1,2-	79-00-5	-36.6	1.4397	4.420E+03	5.00E+01	9.130E-04	7.800E-02	8.800E-06	3.000E-01	3.823E-04	7.955E+03	3.558E+03	7.262E+03	
Trichloroethene [or TCE]	79-01-6	-84.7	1.4642	1.100E+03	1.66E+02	1.030E-02	7.900E-02	9.100E-06	9.960E-01	1.512E-03	4.001E+03	1.789E+03	3.652E+03	
Trichlorofluoromethane	75-69-4	-111.1	1.49	1.100E+03	1.20E+02	9.700E-02	8.700E-02	9.700E-06	7.200E-01	1.172E-02	1.437E+03	6.425E+02	1.312E+03	
Trichlorophenol, 2,4,5-	95-95-4	69	1.678	1.200E+03	1.60E+03	4.330E-06	2.910E-02	7.030E-06	9.600E+00	3.298E-08	8.565E+05	3.830E+05	7.819E+05	
Trichlorophenol, 2,4,6-	88-06-2	69	1.4901	8.000E+02	3.81E+02	7.790E-06	3.180E-02	6.250E-06	2.286E+00	2.434E-07	3.153E+05	1.410E+05	2.878E+05	
Trichlorophenoxy acetic acid, 2,4,5-	83-76-5	153	1.8	2.680E+02	3.41E+01	8.680E-09	1.745E-02	7.763E-06	2.046E-01	1.629E-07	3.854E+05	1.724E+05	3.518E+05	
Trichlorophenoxy propionic acid, 2, (2, 4, 5-) [or Silvex]	93-72-1	181.6	1.2085	1.400E+02	2.60E+03	9.060E-09	1.940E-02	5.830E-06	1.560E+01	2.382E-09	3.187E+06	1.425E+06	2.909E+06	
Trichloropropane, 1,2,3-	96-18-4	-14.7	1.3889	1.790E+03	7.25E+01	4.090E-04	7.100E-02	7.900E-06	4.350E-01	1.180E-04	1.432E+04	6.404E+03	1.307E+04	
Trifluralin	1582-09-8	49	1.15	8.110E+00	1.95E+04	2.640E-05	1.493E-02	5.040E-06	1.170E+02	7.628E-09	1.781E+06	7.965E+05	1.626E+06	
Trimethyl phosphate	512-56-1	-46	1.2144	5.000E+05	6.20E+00	7.200E-09	4.607E-02	8.792E-06	3.720E-02	4.121E-07	2.423E+05	1.084E+05	2.212E+05	
Trimethylbenzene, 1,2,3-	526-73-8	-43.8	0.8761	5.700E+01	7.20E+02	6.160E-03	6.400E-02	7.990E-06	4.320E+00	1.928E-04	1.120E+04	5.010E+03	1.023E+04	
Trimethylbenzene, 1,2,4-	95-63-6	-43.8	0.8761	5.700E+01	7.20E+02	6.160E-03	6.543E-02	7.922E-06	4.320E+00	1.971E-04	1.108E+04	4.955E+03	1.011E+04	

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Table 4 - Technical Report
Chemical-Specific Values

Contaminants	CAS#	Values from Reference Sources										Calculated Values ***			
		MP °C	d (g/cm³)	S (mg/L)	Koc (L/kg)	HLC (atm-in³/mol)	Di (cm²/s)**	DW (cm²/s)**	Kd (L/kg)*	Da (cm²/s)	Resident Volatilization Factor (m³/kg)	Child	Worker		
Trimethylbenzene, 1,3,5-	108-67-8	-44.8 HSDB	0.8637 HSDB	3.100E+01 HSDB-GeoMean	6.60E+02 HSDB	8.770E-03 HSDB	6.020E-02 CHEM9	8.670E-06 CHEM9	3.960E+00	2.794E-04	9.305E+03	4.162E+03	8.495E+03		
Trinitrobenzene, 1,3,5-	99-35-4	121.5 SCDM	1.4775 SCDM	3.500E+02 SCDM	1.45E+01 SCDM	1.600E-08 SCDM	2.417E-02 Calculated	7.688E-06 Calculated	8.700E-02	2.656E-07	3.019E+05	1.350E+05	2.756E+05		
Trinitrotoluene, 2,4,6-	118-96-7	80.1 SCDM	1.654 SCDM	1.240E+02 SCDM	3.75E+01 SCDM	4.870E-09 SCDM	2.450E-02 CHEM9	6.360E-06 CHEM9	2.250E-01	1.250E-07	4.399E+05	1.967E+05	4.015E+05		
TRPH	NOCAS	999	NA	6.500E+01 TPHCWG 97	1.58E+03 TPHCWG 97	1.170E-02 TPHCWG	1.000E-01 TPHCWG 97	1.000E-05 TPHCWG 97	9.480E+00	2.643E-04	9.568E+03	4.279E+03	8.734E+03		
Uranium, soluble salts	7440-81-1	1132.3 SCDM	19.05 SCDM	0.000 HSDB	NA	NA	7.758E-03 Calculated	3.336E-05 Calculated	0.000 SCDM	2.118E-06	#	#	#		
Vanadium	7440-62-2	1917 SCDM	6.11 SCDM	0.000 HSDB	NA	NA	3.857E-01 Calculated	4.253E-05 Calculated	1.000E+03 SCDM	2.699E-10	#	#	#		
Vernam	1929-77-7	-9.99 HSDB est	0.954 HSDB	1.070E+02 HSDB	2.50E+02 HSDB-GeoMean	3.050E-05 HSDB	3.137E-02 Calculated	6.082E-06 Calculated	1.500E+00	1.330E-06	1.349E+05	6.031E+04	1.231E+05		
Vinyl acetate	108-05-4	-93.2 SCDM	0.9317 SCDM	2.000E+04 SCDM	5.00E+00 SCDM	5.110E-04 SCDM	8.500E-02 CHEM9	9.200E-06 CHEM9	3.000E-02	7.087E-04	5.843E+03	2.613E+03	5.334E+03		
Vinyl chloride	75-01-4	-153.7 SCDM	0.9106 SCDM	2.760E+03 SCDM	1.86E+01 SCDM	2.700E-02 SCDM	1.703E-01 Calculated	1.200E-05 Calculated	1.116E-01	2.384E-02	1.007E+03	4.505E+02	9.195E+02		
Xylenes, total	1330-20-7	-19.86 ATSDR	0.864 HSDB	1.300E+02 ATSDR	1.53E+02 HSDB-GeoMean	7.000E-03 HSDB	7.140E-02 CHEM9	9.340E-06 CHEM9	9.180E-01	1.018E-03	4.874E+03	2.180E+03	4.450E+03		
Zinc	7440-66-6	419.5 SCDM	7.14 SCDM	0.000 HSDB	NA	NA	3.446E-01 Calculated	4.020E-05 Calculated	0.000 SCDM	2.552E-06	#	#	#		
Zinc chloride	7646-85-7	999	NA	0.000E+00	NA	NA	0.000E+00	0.000E+00	#	#	#	#	#		
Zinc phosphide	1314-84-7	420 SCDM	4.55 SCDM	0.000 HSDB	NA	NA	1.162E-02 Calculated	1.346E-05 Calculated	0.000 SCDM	8.544E-07	#	#	#		
Zincb	12122-87-7	157 EPI/meas	1.74 HSDB	1.000E+01 EPI/meas	1.23E+03 HSDB	5.625E-14 EPI/calc	1.604E-02 Calculated	7.266E-06 Calculated	7.380E+00	6.166E-09	1.981E+06	8.858E+05	1.808E+06		

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Table 4 - Technical Report
Chemical-Specific Values

Contaminants	CAS#	MP °C	d (g/cm ³)	S (mg/L)	Koc (L/kg)	HLC (atm-m ³ /mol)	Di (cm ² /s)**	Dw (cm ² /s)**	Calculated Values ***			
									Kd (L/kg)*	Da (cm ² /s)	Resident	Child Volatilization Factor (m ³ /kg)

* Kd values listed are calculated as Koc multiplied by an Foc of 0.006 (for volatilization) except in cases where an inorganic Kd value, if available, is used. For leachability calculation, Kd should be calculated as Koc multiplied by an Foc of 0.002.

** For most compounds, the diffusion coefficients in air (Di) and water (Dw) were taken from the values listed in CHEMDAT9 database. When values were not available from this source, Di and Dw were calculated using equations 3, 4, and 5 of the September 2005 "Final Technical Report: Development of Cleanup Target Levels (CTLs) for Chapter 24, Miami-Dade County Code."

*** All calculations are carried out without intermediate rounding. Da values have been rounded to two significant figures and VF values have been rounded to three significant figures for presentation in this Table.

NA = Not available at time of rule adoption.

= Volatilization factors not relevant for these compounds.

(a) = 12789-03-6 or 57-74-9

Reference sources for chemical/physical data:

ATSDR = Agency for Toxic Substances and Disease Registry Toxicant Profiles

Calculated= - Density estimated using Girolami's Method as illustrated in: Baum (1998).

- Henry's Law constant estimated using equation 68 [HLC = (VP)(M)/(S)] (USEPA, 1996b).

CHEM9 = CHEMDAT9 Database (EPA/453/C-94080B)

CRC = CRC Handbook of Chemistry and Physics (Lide and Frederikse, 1994).

CRC GW = CRC Groundwater Chemicals Desk Reference (Montgomery, 2000).

EPI_{calc} = Estimation Program Interface Suite, calculated value

EPI_{meas} = Estimation Program Interface Suite, measured value

Howard = Handbook of Environmental Fate and Exposure Data for Organic Chemicals, Volumes I-V (Howard, 1989, 1990, 1991, 1993, 1997).

Howard and Meylan = Handbook of Physical properties of Organic Chemicals (Howard and Meylan, 1997).

HSDB = Hazardous Substances Data Bank

HSDB-GeoMean = A range of values was reported in HSDB. The value shown is the geometric mean of these values.

MacKay = Illustrated Handbook of Physical Chemical Properties and Environmental Fate for Organic Chemicals, Volumes I-V (Mackey et al., 1992a, b, 1993, 1995, 1997).

Pest.Man. = Worthing, C.R. (ed.) The Pesticide Manual, 8th Edition, 1987

SCDM = Superfund Chemical Data Matrix

SSG = Soil Screening Guidance for Superfund - Note: The SSG leachability value was calculated using a Kd value different than reported in SCDM

Verschueren = Verschueren, K. Handbook of Environmental Data on Organic Chemicals, 3rd Edition, 1996

Versch. est., HSDB est., ATSDR est., = For MP: If an exact MP for a chemical was not found in any of the reference sources, but a source listed it as a liquid, a default MP of -9.9 degrees C was assigned.

Surrogate (a): Surrogate density based on benzo(a)pyrene

Surrogate (b): Surrogate density based on dichloropheno, 2,4-

Surrogate (c): Surrogate density based on hexachlorocyclohexane, beta

Surrogate (d): Surrogate density based on phenylenediamine, m

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Table 5a - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Carcinogens

Contaminants	GI Absorption	Cancer Class	IUR 1/(ug/m ³)	CSF _o 1/(mg/kg-day)	CSF _i 1/(mg/kg-day)	CSF _d 1/(mg/kg-day)
Acephate	1 RAGS-E	C IRIS	NA	8.700E-03 IRIS	NA	NA
Acifluorfen, sodium [or Blazer]	1 RAGS-E	B2 HAL	NA	3.500E-02 HAL	3.500E-02 extrapolated	3.500E-02 extrapolated
Acrylamide	1 RAGS-E	B2 IRIS	1.300E-03 IRIS	4.500E+00 IRIS	4.500E+00 extrapolated*	4.500E+00 extrapolated
Acrylonitrile	1 RAGS-E	B1 IRIS	6.800E-05 IRIS	5.400E-01 IRIS	2.380E-01 extrapolated*	5.400E-01 extrapolated
Alachlor	1 RAGS-E	B2 IRIS	NA	8.000E-02 HEAST	8.000E-02 extrapolated	8.000E-02 extrapolated
Aldrin	1 HSDB	B2 IRIS	4.900E-03 IRIS	1.700E+01 IRIS	1.715E+01 extrapolated*	1.700E+01 extrapolated
Aniline	1 RAGS-E	B2 IRIS	NA	5.700E-03 IRIS	5.700E-03 extrapolated	5.700E-03 extrapolated
Aramite	1 RAGS-E	B2 IRIS	7.100E-06 IRIS	2.500E-02 IRIS	2.485E-02 extrapolated*	NA
Arsenic	0.95 ATSDR	A IRIS	4.300E-03 IRIS	1.500E+00 IRIS	1.505E+01 extrapolated*	1.579E+00 extrapolated
Atrazine	1 RAGS-E	C HEAST	NA	2.200E-01 HEAST	2.200E-01 extrapolated	2.200E-01 extrapolated
Azobenzene	1 RAGS-E	B2 IRIS	3.100E-05 IRIS	1.100E-01 IRIS	1.085E-01 extrapolated*	1.100E-01 extrapolated
Benzene	0.9 ATSDR	A IRIS	7.800E-06 IRIS	5.500E-02 IRIS	2.730E-02 extrapolated*	6.111E-02 extrapolated
Benzydine	1 RAGS-E	A IRIS	6.700E-02 IRIS	2.300E+02 IRIS	2.345E+02 extrapolated*	2.300E+02 extrapolated
Benzo(a)anthracene	0.5 ATSDR	B2 IRIS	NA	7.300E-01 NCEA	3.100E-01 NCEA	1.460E+00 extrapolated
Benzo(a)pyrene	0.5 ATSDR	B2 IRIS	NA	7.300E+00 IRIS	3.100E+00 NCEA	1.460E+01 extrapolated
Benzo(b)fluoranthene	0.5 ATSDR	B2 IRIS	NA	7.300E-01 NCEA	3.100E-01 NCEA	1.460E+00 extrapolated
Benzo(k)fluoranthene	0.5 ATSDR	B2 IRIS	NA	7.300E-02 NCEA	3.100E-02 NCEA	1.460E-01 extrapolated
Benzotrithloride	1 RAGS-E	B2 IRIS	NA	1.300E+01 IRIS	1.300E+01 extrapolated	1.300E+01 extrapolated
Benzyl chloride	1 RAGS-E	B2 IRIS	NA	1.700E-01 IRIS	1.700E-01 extrapolated	1.700E-01 extrapolated
Beryllium	0.007 ATSDR	B1 IRIS	2.400E-03 IRIS	NA	8.400E+00 extrapolated*	NA
Bis(2-chloroethyl)ether	0.98 ATSDR	B2 IRIS	3.300E-04 IRIS	1.100E+00 IRIS	1.155E+00 extrapolated*	1.122E+00 extrapolated
Bis(2-chloroisopropyl)ether [or Bis(2-chloro-1-metylethyl)ether]	1 RAGS-E	C HEAST	NA	7.000E-02 HEAST	3.500E-02 HEAST	7.000E-02 extrapolated
Bis(2-ethylhexyl)adipate	1 RAGS-E	C IRIS	NA	1.200E-03 IRIS	1.200E-03 extrapolated	1.200E-03 extrapolated
Bis(2-ethylhexyl)phthalate [or DEHP]	1 RAGS-E	B2 IRIS	NA	1.400E-02 IRIS	1.400E-02 NCEA	1.400E-02 extrapolated
Bromate	1 RAGS-E	B2 IRIS	NA	7.000E-01 IRIS	7.000E-01 extrapolated	7.000E-01 extrapolated
Bromodichloromethane	0.98 ATSDR	B2 IRIS	NA	6.200E-02 IRIS	6.327E-02 extrapolated	6.327E-02 extrapolated
Bromoform	0.75 ATSDR	B2 IRIS	1.100E-06 IRIS	7.900E-03 IRIS	3.850E-03 extrapolated*	1.053E-02 extrapolated
Cadmium	0.044 ATSDR	B1 IRIS	1.800E-03 IRIS	NA	6.300E+00 extrapolated*	NA
Captafol	1 RAGS-E	C HEAST	NA	8.600E-03 HEAST	8.600E-03 extrapolated	8.600E-03 extrapolated

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Table 5a - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Carcinogens

Contaminants	GI Absorption	Cancer Class	IUR 1/(ug/m ³)	CSF _o 1/(mg/kg-day)	CSF _i 1/(mg/kg-day)	CSF _d 1/(mg/kg-day)
Captan	1 RAGS-E	B2 HEAST	NA	3.500E-03 HEAST	3.500E-03 extrapolated	3.500E-03 extrapolated
Carbazole	1 RAGS-E	B2 HEAST	NA	2.000E-02 HEAST	2.000E-02 extrapolated	2.000E-02 extrapolated
Carbon tetrachloride	0.85 ATSDR	B2 IRIS	1.500E-05 IRIS	1.300E-01 IRIS	5.250E-02 extrapolated*	1.529E-01 extrapolated
Chlordane (total)	0.8 ATSDR	B2 IRIS	1.000E-04 IRIS	3.500E-01 IRIS	3.500E-01 extrapolated*	4.375E-01 extrapolated
Chlorobenzilate	0.57 HSDB	B2 HEAST	7.800E-05 HEAST	2.700E-01 HEAST	2.700E-01 HEAST	4.737E-01 extrapolated
Chloroform	1 ATSDR	B2 IRIS	2.300E-05 IRIS	NA	8.050E-02 extrapolated*	NA
Chloronitrobenzene, o-	1 RAGS-E	B2 HEAST	NA	2.500E-02 HEAST	2.500E-02 extrapolated	2.500E-02 extrapolated
Chloronitrobenzene, p-	1 RAGS-E	B2 HEAST	NA	1.800E-02 HEAST	1.800E-02 extrapolated	1.800E-02 extrapolated
Chlorothalonil [or Bravo]	1 RAGS-E	B2 IRIS	NA	1.100E-02 HEAST	1.100E-02 extrapolated	1.100E-02 extrapolated
Chrysene	0.5 ATSDR	B2 IRIS	NA	7.300E-03 NCEA	3.100E-03 NCEA	1.460E-02 extrapolated
Crotonaldehyde	1 RAGS-E	C IRIS	NA	1.900E+00 HEAST	NA	NA
Cyanazine	1 RAGS-E	B HEAST	NA	8.400E-01 HEAST	NA	NA
Diallate	1 RAGS-E	B2 HEAST	NA	6.100E-02 HEAST	6.100E-02 extrapolated	6.100E-02 extrapolated
Dibenz(a,h)anthracene	0.5 ATSDR	B2 IRIS	NA	7.300E+00 NCEA	3.100E+00 NCEA	1.460E+01 extrapolated
Dibromo-3-chloropropane, 1,2- [or DBCP, 1,2-]	1 RAGS-E	B2 HEAST	6.900E-07 HEAST	1.400E+00 HEAST	2.400E-03 HEAST	1.400E+00 extrapolated
Dibromochloromethane	0.75 ATSDR	C IRIS	NA	8.400E-02 IRIS	1.120E-01 extrapolated	1.120E-01 extrapolated
Dibromoethane, 1,2- [or EDB]	0.98 ATSDR	B2 IRIS	3.000E-04 IRIS	2.000E+00 IRIS	1.050E+00 extrapolated*	2.041E+00 extrapolated
Dichloroacetic acid	1 RAGS-E	B2 IRIS	NA	5.000E-02 IRIS	NA	NA
Dichlorobenzene, 1,4-	1 ATSDR	C HEAST	NA	2.400E-02 HEAST	2.200E-02 NCEA	2.400E-02 extrapolated
Dichlorobenzidine, 3,3'-	1 RAGS-E	B2 IRIS	NA	4.500E-01 IRIS	4.500E-01 extrapolated	4.500E-01 extrapolated
Dichlorodiphenyldichloroethane, p,p'- [or DDD, 4,4'-]	0.8 ATSDR	B2 IRIS	NA	2.400E-01 IRIS	3.000E-01 extrapolated	3.000E-01 extrapolated
Dichlorodiphenyldichloroethylene, p,p'- [or DDE, 4,4'-]	0.8 ATSDR	B2 IRIS	NA	3.400E-01 IRIS	4.250E-01 extrapolated	4.250E-01 extrapolated
Dichlorodiphenyltrichloroethane, p,p'- [or DDT, 4,4'-]	0.8 ATSDR	B2 IRIS	9.700E-05 IRIS	3.400E-01 IRIS	3.395E-01 extrapolated*	4.250E-01 extrapolated
Dichloroethane, 1,2- [or EDC]	1 ATSDR	B2 IRIS	2.600E-05 IRIS	9.100E-02 IRIS	9.100E-02 extrapolated*	9.100E-02 extrapolated
Dichloropropane, 1,2-	1 ATSDR	B2 HEAST	NA	6.800E-02 HEAST	6.800E-02 extrapolated	6.800E-02 extrapolated
Dichloropropene, 1,3-	0.98 ATSDR	B2 IRIS	4.000E-06 IRIS	1.000E-01 IRIS	1.400E-02 extrapolated*	1.020E-01 extrapolated
Dichlorvos	0.96 HSDB	B2 IRIS	NA	2.900E-01 IRIS	3.021E-01 extrapolated	3.021E-01 extrapolated
Dicofol [or Kelthane]	1 RAGS-E	C OPP	NA	4.400E-01 IRIS-WD	4.400E-01 extrapolated	4.400E-01 extrapolated
Dieldrin	1 HSDB	B2 IRIS	4.600E-03 IRIS	1.600E+01 IRIS	1.610E+01 extrapolated*	1.600E+01 extrapolated

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Table 5a - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Carcinogens

Contaminants	GI Absorption	Cancer Class	IUR 1/(ug/m ³)	CSF _o 1/(mg/kg-day)	CSF _i 1/(mg/kg-day)	CSF _d 1/(mg/kg-day)
Diethylstilbestrol		B		4.700E+03 HEAST	NA	NA
Dimethoxybenzidine, 3,3'-	1 RAGS-E	B		1.400E-02 HEAST	1.400E-02 extrapolated	NA
Dimethylaniline, 2,4-	1 RAGS-E	C HEAST	NA	7.500E-01 HEAST	7.500E-01 extrapolated	7.500E-01 extrapolated
Dimethylbenzidine, 3,3'-	1 RAGS-E	NA		9.200E+00 HEAST	9.200E+00 extrapolated	NA
Dinitrotoluene, 2,4-	1 HSDB	B2 IRIS	NA	6.800E-01 IRIS	6.800E-01 extrapolated	6.800E-01 extrapolated
Dinitrotoluene, 2,6-	1 RAGS-E	B2 IRIS	NA	6.800E-01 IRIS	6.800E-01 extrapolated	6.800E-01 extrapolated
Dioxane, 1,4-	1 RAGS-E	B2 IRIS	NA	1.100E-02 IRIS	1.100E-02 extrapolated	1.100E-02 extrapolated
Dioxins, as total 2,3,7,8-TCDD equivalents	0.9 ATSDR	B2 HEAST	3.300E+01 HEAST	1.500E+05 HEAST	1.500E+05 HEAST	1.667E+05 extrapolated
Diphenylhydrazine, 1,2-	1 RAGS-E	B2 IRIS	2.200E-04 IRIS	8.000E-01 IRIS	7.700E-01 extrapolated*	8.000E-01 extrapolated
Epichlorohydrin	1 RAGS-E	B2 IRIS	1.200E-06 IRIS	9.900E-03 IRIS	4.200E-03 extrapolated*	9.900E-03 extrapolated
Ethyl acrylate	1 RAGS-E	B2 HEAST	NA	4.800E-02 HEAST	4.800E-02 extrapolated	4.800E-02 extrapolated
Ethyl chloride [or Chloroethane]	1 RAGS-E	NA	NA	2.900E-03 NCEA	2.900E-03 extrapolated	2.900E-03 extrapolated
Ethylene oxide	1 RAGS-E	B1 HEAST	1.000E-04 HEAST	1.020E+00 HEAST	3.500E-01 HEAST	1.020E+00 extrapolated
Ethylene thiourea [or ETU]	1 RAGS-E	B		1.100E-01 HEAST	NA	NA
Formaldehyde	1 RAGS-E	B1 IRIS	1.300E-05 IRIS	NA	4.550E-02 extrapolated*	NA
Heptachlor	0.8 ATSDR	B2 IRIS	1.300E-03 IRIS	4.500E+00 IRIS	4.550E+00 extrapolated*	5.625E+00 extrapolated
Heptachlor epoxide	0.4 ATSDR	B2 IRIS	2.600E-03 IRIS	9.100E+00 IRIS	9.100E+00 extrapolated*	2.275E+01 extrapolated
Hexachloro-1,3-butadiene	1 ATSDR	C IRIS	2.200E-05 IRIS	7.800E-02 IRIS	7.700E-02 extrapolated*	7.800E-02 extrapolated
Hexachlorobenzene	0.8 ATSDR	B2 IRIS	4.600E-04 IRIS	1.600E+00 IRIS	1.610E+00 extrapolated*	2.000E+00 extrapolated
Hexachlorocyclohexane, alpha- [or BHC, alpha-]	0.974 ATSDR	B2 IRIS	1.800E-03 IRIS	6.300E+00 IRIS	6.300E+00 extrapolated*	6.468E+00 extrapolated
Hexachlorocyclohexane, beta- [BHC, beta-]	0.907 ATSDR	C IRIS	5.300E-04 IRIS	1.800E+00 IRIS	1.855E+00 extrapolated*	1.985E+00 extrapolated
Hexachlorocyclohexane, gamma- [or Lindane or BHC, gamma-]	0.994 ATSDR	B2-C HEAST	NA	1.300E+00 HEAST	1.308E+00 extrapolated	1.308E+00 extrapolated
Hexachlorocyclohexane, technical [or BHC, technical]	1 RAGS-E	B2 IRIS	5.100E-04 IRIS	1.800E+00 IRIS	1.785E+00 extrapolated*	NA
Hexachlorodibenzo-p-dioxin (mixture)	1 RAGS-E	B2 IRIS	1.300E+00 IRIS	6.200E+03 IRIS	4.550E+03 extrapolated*	NA
Hexachloroethane	1 RAGS-E	C IRIS	4.000E-06 IRIS	1.400E-02 IRIS	1.400E-02 extrapolated*	1.400E-02 extrapolated
Hexahydro-1,3,5-trinitro-1,3,5-triazine [or RDX]	1 RAGS-E	C IRIS	NA	1.100E-01 IRIS	1.100E-01 extrapolated	1.100E-01 extrapolated
Indeno(1,2,3-cd)pyrene	0.5 ATSDR	B2 IRIS	NA	7.300E-01 NCEA	3.100E-01 NCEA	1.460E+00 extrapolated
Isophorone	1 RAGS-E	C IRIS	NA	9.500E-04 IRIS	9.500E-04 extrapolated	9.500E-04 extrapolated
Kepon		B		8.000E+00 NCEA	NA	NA

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**Table 5a - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Carcinogens**

Contaminants	GI Absorption	Cancer Class	IUR 1/(ug/m ³)	CSF _o 1/(mg/kg-day)	CSF _i 1/(mg/kg-day)	CSF _d 1/(mg/kg-day)
Methoxy-5-nitroaniline, 2-	1 RAGS-E	B2 HEAST	NA	4.600E-02 HEAST	4.600E-02 extrapolated	4.600E-02 extrapolated
Methyl chloride [or Chloromethane]	1 RAGS-E	D IRIS	NA	1.300E-02 HEAST	3.500E-03 NCEA	1.300E-02 extrapolated
Methyl-5-nitroaniline, 2-		B		3.300E-02 HEAST	NA	NA
Methylaniline, 2-	1 RAGS-E	B2 HEAST	NA	2.400E-01 HEAST	2.400E-01 extrapolated	2.400E-01 extrapolated
Methylene bis(2-chloroaniline), 4,4-	1 RAGS-E	B2 HEAST	3.700E-05 HEAST	1.300E-01 HEAST	1.300E-01 HEAST	1.300E-01 extrapolated
Methylene chloride	1 ATSDR	B2 IRIS	4.700E-07 IRIS	7.500E-03 IRIS	1.645E-03 extrapolated*	7.500E-03 extrapolated
Naphthylamine, 2-		B		1.300E+02 NCEA	NA	NA
Nickel subsulfide	0.05 ATSDR	A IRIS	4.800E-04 IRIS	NA	1.680E+00 extrapolated*	NA
Nitroaniline, m-	1 RAGS-E	C NCEA		2.100E-02 NCEA	2.100E-02 extrapolated	NA
Nitroaniline, p-	1 RAGS-E	C NCEA	NA	2.100E-02 NCEA	2.100E-02 extrapolated	2.100E-02 extrapolated
Nitroglycerin	0.1 ProfJudge	NA	NA	1.400E-02 NCEA	1.400E-01 extrapolated	1.400E-01 extrapolated
Nitroso-di-ethylamine, N-	1 RAGS-E	B2 IRIS	4.300E-02 IRIS	1.500E+02 IRIS	1.505E+02 extrapolated*	1.500E+02 extrapolated
Nitroso-dimethylamine, N-	1 RAGS-E	B2 IRIS	1.400E-02 IRIS	5.100E+01 IRIS	4.900E+01 extrapolated*	5.100E+01 extrapolated
Nitroso-di-n-butylamine, N-	1 RAGS-E	B2 IRIS	1.600E-03 IRIS	5.400E+00 IRIS	5.600E+00 extrapolated*	5.400E+00 extrapolated
Nitroso-di-n-propylamine, N-	0.475 ATSDR	B2 IRIS	NA	7.000E+00 IRIS	1.474E+01 extrapolated	1.474E+01 extrapolated
Nitroso-diphenylamine, N-	1 RAGS-E	B2 IRIS	NA	4.900E-03 IRIS	4.900E-03 extrapolated	4.900E-03 extrapolated
Nitroso-N-methylethylamine, N-	1 RAGS-E	B2 IRIS	NA	2.200E+01 IRIS	2.200E+01 extrapolated	2.200E+01 extrapolated
Nitrosopyrrolidine, N-	1 RAGS-E	B2 IRIS	6.100E-04 IRIS	2.000E+00 IRIS	2.135E+00 extrapolated*	NA
PCBs [or Aroclor mixture]	1 RAGS-E	B2 IRIS	1.000E-04 IRIS	2.000E+00 IRIS	3.500E-01 extrapolated*	2.000E+00 extrapolated
Pentachloronitrobenzene	1 RAGS-E	C HEAST	NA	2.600E-01 HEAST	2.600E-01 extrapolated	2.600E-01 extrapolated
Pentachlorophenol	0.5 ATSDR	B2 IRIS	NA	1.200E-01 IRIS	2.400E-01 extrapolated	2.400E-01 extrapolated
Phenylenediamine, o-	1 RAGS-E	B2 HEAST	NA	4.700E-02 HEAST	4.700E-02 extrapolated	4.700E-02 extrapolated
Phenylphenol, 2-	1 RAGS-E	C HEAST	NA	1.900E-03 HEAST	1.900E-03 extrapolated	1.900E-03 extrapolated
Propylene oxide	1 RAGS-E	B2 IRIS	3.700E-06 IRIS	2.400E-01 IRIS	1.295E-02 extrapolated*	2.400E-01 extrapolated
Quinoline	1 RAGS-E	B2 IRIS	NA	3.000E+00 IRIS	3.000E+00 extrapolated	3.000E+00 extrapolated
Simazine	1 RAGS-E	C HEAST	NA	1.200E-01 HEAST	1.200E-01 extrapolated	1.200E-01 extrapolated
Tetrachloroethane, 1,1,1,2-	1 RAGS-E	C IRIS	7.400E-06 IRIS	2.600E-02 IRIS	2.590E-02 extrapolated*	2.600E-02 extrapolated
Tetrachloroethane, 1,1,2,2-	0.7 ATSDR	C IRIS	5.800E-05 IRIS	2.000E-01 IRIS	2.030E-01 extrapolated*	2.857E-01 extrapolated
Tetrachloroethene [or PCE]	1 ATSDR	NA	NA	5.200E-02 NCEA	2.000E-03 NCEA	5.200E-02 extrapolated

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**Table 5a - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Carcinogens**

Contaminants	GI Absorption	Cancer Class	IUR 1/(ug/m ³)	CSF _o 1/(mg/kg-day)	CSF _i 1/(mg/kg-day)	CSF _d 1/(mg/kg-day)
Toluene-2,4-diamine		B		3.200E+00 <i>HEAST</i>	NA	NA
Toluidine, p-	1 <i>RAGS-E</i>	C <i>HEAST</i>	NA	1.900E-01 <i>HEAST</i>	1.900E-01 <i>extrapolated</i>	1.900E-01 <i>extrapolated</i>
Toxaphene	0.63 <i>HSDB</i>	B2 <i>IRIS</i>	3.200E-04 <i>IRIS</i>	1.100E+00 <i>IRIS</i>	1.120E+00 <i>extrapolated*</i>	1.746E+00 <i>extrapolated</i>
Trichloroethane, 1,1,2-	0.81 <i>ATSDR</i>	C <i>IRIS</i>	1.600E-05 <i>IRIS</i>	5.700E-02 <i>IRIS</i>	5.600E-02 <i>extrapolated*</i>	7.037E-02 <i>extrapolated</i>
Trichloroethene [or TCE]	0.945 <i>ATSDR</i>	B2 <i>HAL</i>	NA	1.100E-02 <i>NCEA</i>	6.000E-03 <i>NCEA</i>	1.164E-02 <i>extrapolated</i>
Trichlorophenol, 2,4,6-	1 <i>RAGS-E</i>	B2 <i>IRIS</i>	3.100E-06 <i>IRIS</i>	1.100E-02 <i>IRIS</i>	1.085E-02 <i>extrapolated*</i>	1.100E-02 <i>extrapolated</i>
Trichloropropane, 1,2,3-	1 <i>RAGS-E</i>	B2 <i>HEAST</i>	NA	2.000E+00 <i>NCEA</i>	2.000E+00 <i>extrapolated</i>	2.000E+00 <i>extrapolated</i>
Trifluralin	0.2 <i>HSDB</i>	C <i>IRIS</i>	NA	7.700E-03 <i>IRIS</i>	3.850E-02 <i>extrapolated</i>	3.850E-02 <i>extrapolated</i>
Trimethyl phosphate	1 <i>RAGS-E</i>	B2 <i>HEAST</i>	NA	3.700E-02 <i>HEAST</i>	3.700E-02 <i>extrapolated</i>	3.700E-02 <i>extrapolated</i>
Trinitrotoluene, 2,4,6-	1 <i>RAGS-E</i>	C <i>IRIS</i>	NA	3.000E-02 <i>IRIS</i>	3.000E-02 <i>extrapolated</i>	3.000E-02 <i>extrapolated</i>
Vinyl chloride a	0.875 <i>ATSDR</i>	A <i>IRIS</i>	4.400E-06 <i>IRIS</i>	7.200E-01 <i>IRIS</i>	1.540E-02 <i>extrapolated*</i>	8.229E-01 <i>extrapolated</i>

extrapolated = extrapolated from a Cancer Slope Factor (CSF) for another route of administration

extrapolated* = extrapolated from an Inhalation Unit Risk (IUR)

NA = Cancer potency factor not available and route-to-route extrapolation is not appropriate

a = Oral cancer slope factor for vinyl chloride should be doubled when calculating risks for lifetime exposure, as in the case of drinking water surface water exposures

Reference sources for toxicity data:

IRIS: USEPA's Integrated Risk Information System

HEAST: USEPA's 1997 Health Effects Assessment Summary Tables

NCEA: USEPA's National Center for Environmental Assessment

HAL: USEPA's 2002 Edition of the Drinking Water Standards and Health Advisories

OPP: USEPA's Office of Pesticide Programs Reference Dose Tracking Report

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Acenaphthene	0.5 ATSDR	NA	6.000E-02 IRIS Low	3.000E-02 extrapolated	3.000E-02 extrapolated	-Liver
Acenaphthylene	1 RAGS-E	NA	3.000E-02 Surrogate (a)	3.000E-02 extrapolated	3.000E-02 extrapolated	-Liver
Acephate	1 RAGS-E	NA	4.000E-03 IRIS High	4.000E-03 extrapolated	4.000E-03 extrapolated	-Neurological
Acetone	1 RAGS-E	NA	9.000E-01 IRIS Low	9.000E-01 extrapolated	9.000E-01 extrapolated	-Kidney -Liver -Neurological
Acetonitrile	1 RAGS-E	6.000E-02 IRIS Medium	6.000E-03 IRIS-WD	1.714E-02 extrapolated*	6.000E-03 extrapolated	-Mortality
Acetophenone	1 RAGS-E	NA	1.000E-01 IRIS Low	1.000E-01 IRIS	1.000E-01 extrapolated	-None Specified
Acifluorfen, sodium [or Blazer]	1 RAGS-E	NA	1.300E-02 IRIS Medium	1.300E-02 extrapolated	1.300E-02 extrapolated	-Kidney
Acrolein	1 RAGS-E	2.000E-05 IRIS Medium	5.000E-04 IRIS Medium	5.714E-06 extrapolated*	5.000E-04 extrapolated	-Nasal
Acrylamide	1 RAGS-E	NA	2.000E-04 IRIS Medium	2.000E-04 extrapolated	2.000E-04 extrapolated	-Neurological
Acrylic acid	1 RAGS-E	1.000E-03 IRIS Medium	5.000E-01 IRIS High	2.857E-04 extrapolated*	5.000E-01 extrapolated	-Developmental
Acrylonitrile	1 RAGS-E	2.000E-03 IRIS Medium	1.000E-03 HEAST	5.714E-04 extrapolated*	1.000E-03 extrapolated	-Nasal -Reproductive
Alachlor	1 RAGS-E	NA	1.000E-02 IRIS High	1.000E-02 extrapolated	1.000E-02 extrapolated	-Blood
Aldicarb [or Temik]	1 HSDB	NA	1.000E-03 IRIS Medium	1.000E-03 extrapolated	1.000E-03 extrapolated	-Neurological

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Aldicarb sulfone	1 RAGS-E	NA	1.000E-03 IRIS Medium	NA	NA	-Neurological
Aldicarb sulfoxide	1 RAGS-E	NA	1.000E-03 HAL	NA	NA	-Neurological
Aldrin	1 HSDB	NA	3.000E-05 IRIS Medium	3.000E-05 extrapolated	3.000E-05 extrapolated	-Liver
Ally [or Methylsulfuron, methyl]	1 RAGS-E	NA	2.500E-01 IRIS High	2.500E-01 extrapolated	2.500E-01 extrapolated	-Body Weight
Allyl alcohol	1 RAGS-E	NA	5.000E-03 IRIS Low	5.000E-03 extrapolated	5.000E-03 extrapolated	-Kidney -Liver
Allyl chloride	1 RAGS-E	1.000E-03 IRIS Low	5.000E-02 HEAST	2.857E-04 extrapolated*	5.000E-02 extrapolated	-Neurological
Aluminum	0.04 ATSDR	NA	1.000E+00 NCEA	1.400E-03 NCEA	4.000E-02 extrapolated	-Body Weight
Aluminum phosphide	1 RAGS-E	NA	4.000E-04 IRIS Medium	4.000E-04 extrapolated	4.000E-04 extrapolated	-Body Weight
Ametryn	0.679 HSDB	NA	9.000E-03 IRIS Low	6.111E-03 extrapolated	6.111E-03 extrapolated	-Liver
Ammonia	1 RAGS-E	1.000E-01 IRIS Medium	4.000E-01 ATSDR	2.857E-02 extrapolated*	NA	-Respiratory
Ammonia (as Total)	1 RAGS-E	1.000E-01 IRIS Medium	4.000E-01 ATSDR	2.857E-02 extrapolated*	NA	-Respiratory
Ammonium sulfamate	1 RAGS-E	NA	2.000E-01 IRIS Low	2.000E-01 extrapolated	2.000E-01 extrapolated	-Body Weight
Anilazine [or Dyrene]	1 RAGS-E	NA	4.000E-04 OPP	4.000E-04 extrapolated	4.000E-04 extrapolated	-None Specified

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Aniline	1 RAGS-E	1.000E-03 IRIS Low	7.000E-03 NCEA	2.857E-04 extrapolated*	7.000E-03 extrapolated	-Blood -Spleen
Anthracene	0.5 ATSDR	NA	3.000E-01 IRIS Low	1.500E-01 extrapolated	1.500E-01 extrapolated	-None Specified
Antimony	0.01 ATSDR	NA	4.000E-04 IRIS Low	4.000E-06 extrapolated	4.000E-06 extrapolated	-Blood
Aramite	1 RAGS-E	NA	5.000E-02 HEAST	NA	NA	
Arsenic	0.95 ATSDR	NA	3.000E-04 IRIS Medium	2.850E-04 extrapolated	2.850E-04 extrapolated	-Cardiovascular -Skin
Atrazine	1 RAGS-E	NA	3.500E-02 IRIS High	3.500E-02 extrapolated	3.500E-02 extrapolated	-Cardiovascular
Barium (soluble salts)	0.07 RAGS-E	5.000E-04 HEAST	7.000E-02 IRIS Medium	1.429E-04 extrapolated*	NA	-Cardiovascular
Baygon [or Propoxur]	1 RAGS-E	NA	4.000E-03 IRIS Medium	4.000E-03 extrapolated	4.000E-03 extrapolated	-Blood -Neurological
Bayleton	1 RAGS-E	NA	3.000E-02 IRIS High	3.000E-02 extrapolated	3.000E-02 extrapolated	-Blood
Benomyl	0.665 HSDB	NA	5.000E-02 IRIS High	3.325E-02 extrapolated	3.325E-02 extrapolated	-Developmental
Bensulide	1 RAGS-E	NA	6.600E-03 OPP	NA	NA	-None Specified
Bentazon	1 RAGS-E	NA	3.000E-02 IRIS Medium	3.000E-02 extrapolated	3.000E-02 extrapolated	-Blood
Benzaldehyde	1 RAGS-E	NA	1.000E-01 IRIS Low	1.000E-01 extrapolated	1.000E-01 extrapolated	-Gastrointestinal -Kidney

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Benzene	0.9 ATSDR	3.000E-02 IRIS Medium	4.000E-03 IRIS Medium	8.571E-03 extrapolated*	3.600E-03 extrapolated	-Blood
Benzenethiol	1 RAGS-E	NA	1.000E-05 HEAST	1.000E-05 extrapolated	1.000E-05 extrapolated	-Liver
Benzidine	1 RAGS-E	NA	3.000E-03 IRIS Medium	3.000E-03 extrapolated	3.000E-03 extrapolated	-Liver -Neurological
Benzo(g,h,i)perylene	0.5 ATSDR	NA	3.000E-02 Surrogate (e)	1.500E-02 extrapolated	1.500E-02 extrapolated	-Neurological
Benzoic acid	1 HSDB	NA	4.000E+00 IRIS Medium	4.000E+00 extrapolated	4.000E+00 extrapolated	-None Specified
Benzyl alcohol	1 RAGS-E	NA	3.000E-01 HEAST	NA	NA	-Gastrointestinal
Beryllium	0.007 ATSDR	2.000E-05 IRIS Medium	2.000E-03 IRIS Low/Medium	5.714E-06 extrapolated*	1.400E-05 extrapolated	-Gastrointestinal -Respiratory
Bidrin [or Dicrotophos]	1 RAGS-E	NA	1.000E-04 IRIS Low	1.000E-04 extrapolated	1.000E-04 extrapolated	-Developmental
Bioallethrin	1 RAGS-E	NA	5.000E-03 OPP	NA	NA	-Liver
Biphenyl, 1,1- [or Diphenyl]	1 RAGS-E	NA	5.000E-02 IRIS Medium	5.000E-02 extrapolated	5.000E-02 extrapolated	-Kidney
Bis(2-chloroisopropyl)ether [or Bis(2-chloro-1-methylethyl)ether]	1 RAGS-E	NA	4.000E-02 IRIS Low	4.000E-02 extrapolated	4.000E-02 extrapolated	-Blood
Bis(2-ethylhexyl)adipate	1 RAGS-E	NA	6.000E-01 IRIS Medium	6.000E-01 extrapolated	6.000E-01 extrapolated	-Body Weight
Bis(2-ethylhexyl)phthalate [or DEHP]	1 RAGS-E	NA	2.000E-02 IRIS Medium	2.000E-02 extrapolated	2.000E-02 extrapolated	-Liver

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Bisphenol A	1 RAGS-E	NA	5.000E-02 IRIS High	5.000E-02 extrapolated	5.000E-02 extrapolated	-Body Weight
Boron	1 RAGS-E	2.000E-02 HEAST	2.000E-01 IRIS High	5.714E-03 extrapolated*	2.000E-01 extrapolated	-Reproductive -Respiratory
Bromacil	1 RAGS-E	NA	1.000E-01 HAL	1.000E-01 extrapolated	1.000E-01 extrapolated	-Body Weight
Bromate	1 RAGS-E	NA	4.000E-03 IRIS Medium	4.000E-03 extrapolated	4.000E-03 extrapolated	-Kidney
Bromochloromethane	1 RAGS-E	NA	1.300E-02 HAL	1.300E-02 extrapolated	1.300E-02 extrapolated	-None Specified
Bromodichloromethane	0.98 ATSDR	NA	2.000E-02 IRIS Medium	1.960E-02 extrapolated	1.960E-02 extrapolated	-Kidney
Bromoform	0.75 ATSDR	NA	2.000E-02 IRIS Medium	1.500E-02 extrapolated	1.500E-02 extrapolated	-Liver
Bromomethane [or Methyl bromide]	1 RAGS-E	5.000E-03 IRIS High	1.400E-03 IRIS Medium	1.429E-03 extrapolated*	NA	-Gastrointestinal -Respiratory
Bromoxynil	1 RAGS-E	NA	2.000E-02 IRIS Medium	2.000E-02 extrapolated	2.000E-02 extrapolated	-None Specified
Bromoxynil octanoate	1 RAGS-E	NA	2.000E-02 IRIS Medium	NA	NA	-Neurological
Butane	1 CEHT	NA	1.300E+00 CEHT	1.300E+00 CEHT	1.300E+00 extrapolated	-Neurological -Respiratory
Butanol, n-	1 RAGS-E	NA	1.000E-01 IRIS Low	1.000E-01 extrapolated	1.000E-01 extrapolated	-Neurological
Butyl alcohol, tert- [or Butanol, tert-]	1 RAGS-E	NA	2.000E-01 CEHT	2.000E-01 extrapolated	2.000E-01 extrapolated	-Kidney -Neurological

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Butyl benzyl phthalate	1 HSDB	NA	2.000E-01 IRIS Low	2.000E-01 extrapolated	2.000E-01 extrapolated	-Liver
Butylate	1 RAGS-E	NA	5.000E-02 IRIS High	5.000E-02 extrapolated	5.000E-02 extrapolated	-Liver
Butylbenzene, n-	1 RAGS-E	NA	4.000E-02 NCEA Low	4.000E-02 extrapolated	4.000E-02 extrapolated	-Kidney -Liver -Neurological
Butylbenzene, sec	1 Default	NA	4.000E-02 NCEA Low	4.000E-02 extrapolated	4.000E-02 extrapolated	-Kidney -Neurological
Butylbenzene, tert	1 RAGS-E	NA	4.000E-02 NCEA Low	4.000E-02 extrapolated	4.000E-02 extrapolated	-Kidney -Neurological
Butylphthalyl butylglycolate	1 RAGS-E	NA	1.000E+00 IRIS Low	1.000E+00 extrapolated	1.000E+00 extrapolated	-None Specified
Cadmium	0.044 ATSDR	NA	1.000E-03 IRIS High	5.700E-05 NCEA	4.400E-05 extrapolated	-Kidney
Calcium cyanide	1 RAGS-E	NA	4.000E-02 IRIS Medium	4.000E-02 extrapolated	4.000E-02 extrapolated	-Neurological -Thyroid
Captafol	1 RAGS-E	NA	2.000E-03 IRIS High	2.000E-03 extrapolated	2.000E-03 extrapolated	-Kidney
Captan	1 RAGS-E	NA	1.300E-01 IRIS High	1.300E-01 extrapolated	1.300E-01 extrapolated	-Body Weight
Carbaryl [or Sevin]	0.98 HSDB	NA	1.000E-01 IRIS Medium	9.800E-02 extrapolated	9.800E-02 extrapolated	-Kidney -Liver
Carbofuran	1 RAGS-E	NA	5.000E-03 IRIS High	5.000E-03 extrapolated	5.000E-03 extrapolated	-Neurological -Reproductive
Carbon disulfide	1 RAGS-E	7.000E-01 IRIS Medium	1.000E-01 IRIS Medium	2.000E-01 extrapolated*	1.000E-01 extrapolated	-Developmental -Neurological

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Carbon tetrachloride	0.85 ATSDR	2.00E-03 NCEA	7.00E-04 IRIS Medium	5.714E-04 extrapolated*	5.950E-04 extrapolated	-Liver
Carbophenothion [or Trithion]	1 RAGS-E	NA	1.300E-04 OPP	1.300E-04 extrapolated	1.300E-04 extrapolated	-Neurological
Carboxin	1 RAGS-E	NA	1.000E-01 IRIS High	1.000E-01 extrapolated	1.000E-01 extrapolated	-Body Weight
Chloral hydrate	1 RAGS-E	NA	1.000E-01 IRIS High	1.000E-01 extrapolated	1.000E-01 extrapolated	-Gastrointestinal -Neurological
Chloramben	1 RAGS-E	NA	1.500E-02 IRIS Medium	1.500E-02 extrapolated	1.500E-02 extrapolated	-Liver
Chlordane (total)	0.8 ATSDR	7.000E-04 IRIS Low	5.000E-04 IRIS Medium	2.000E-04 extrapolated*	4.000E-04 extrapolated	-Liver
Chlorine	1 RAGS-E	NA	1.000E-01 IRIS Medium	5.700E-05 NCEA	NA	-Respiratory
Chlorine cyanide [or Cyanogen chloride]	1 RAGS-E	NA	5.000E-02 IRIS Medium	5.000E-02 extrapolated	5.000E-02 extrapolated	-Neurological -Thyroid
Chlorite (sodium salt) [or Sodium chlorite]	1 RAGS-E	NA	3.000E-02 IRIS Medium/High	3.000E-02 extrapolated	3.000E-02 extrapolated	-Developmental -Neurological
Chloro-1,1-difluoroethane, 1-	1 RAGS-E	5.000E+01 IRIS Medium	1.429E+01 extrapolated	1.429E+01 extrapolated*	1.429E+01 extrapolated	-None Specified
Chloro-1,3-butadiene [or Chloroprene]	1 RAGS-E	7.000E-03 HEAST	2.000E-02 HEAST	2.000E-03 extrapolated*	2.000E-02 extrapolated	-Hair Loss -Nasal
Chloroacetic acid	1 RAGS-E	NA	2.000E-03 HEAST	2.000E-03 extrapolated	2.000E-03 extrapolated	-Cardiovascular
Chloroaniline, p-	1 RAGS-E	NA	4.000E-03 IRIS Low	4.000E-03 extrapolated	4.000E-03 extrapolated	-Spleen

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RIC (mg/m ³)	RFDo (mg/kg-day) IRIS Medium	RFDi (mg/kg-day) NCEA	RFDD (mg/kg-day) extrapolated	Default Non-Cancer Target Organs/Systems or Effects†
Chlorobenzene	0.31 ATSDR	NA	2.000E-02 IRIS Medium	1.700E-02 NCEA	6.200E-03 extrapolated	-Liver
Chlorobenzilate	0.57 HSDB	NA	2.000E-02 IRIS Medium	1.140E-02 extrapolated	1.140E-02 extrapolated	-Body Weight
Chlorobenzoic acid, p-	1 RAGS-E	NA	2.000E-01 HEAST	2.000E-01 extrapolated	2.000E-01 extrapolated	-None Specified
Chlorobenzotrifluoride, 4-	1 RAGS-E	NA	2.000E-02 HEAST	2.000E-02 extrapolated	2.000E-02 extrapolated	-Kidney
Chlorobutane, 1-	1 RAGS-E	NA	4.000E-01 HEAST	4.000E-01 extrapolated	4.000E-01 extrapolated	-Blood -Neurological
Chlorodifluoromethane	1 RAGS-E	5.000E+01 IRIS Medium	1.429E+01 extrapolated	1.429E+01 extrapolated*	1.429E+01 extrapolated	-Adrenals -Kidney -Pituitary
Chloroform	1 ATSDR	NA	1.000E-02 IRIS Medium	1.400E-02 NCEA	1.000E-02 extrapolated	-Liver
Chloro-m-cresol, p- [or Chloro-3-methylphenol, 4-]	1 RAGS-E	NA	9.000E-03 OPP	9.000E-03 extrapolated	9.000E-03 extrapolated	-Body Weight
Chloronaphthalene, beta-	1 RAGS-E	NA	8.000E-02 IRIS Low	8.000E-02 extrapolated	8.000E-02 extrapolated	-Liver -Respiratory
Chlorophenol, 2-	1 RAGS-E	NA	5.000E-03 IRIS Low	5.000E-03 extrapolated	5.000E-03 extrapolated	-Reproductive
Chlorophenol, 3-	1 RAGS-E	NA	5.000E-03 Surrogate (b)	5.000E-03 extrapolated	5.000E-03 extrapolated	-Reproductive
Chlorophenol, 4-	1 RAGS-E	NA	5.000E-03 Surrogate (b)	5.000E-03 extrapolated	5.000E-03 extrapolated	-Reproductive
Chloropropane, 2-	1 RAGS-E	1.000E-01 HEAST	2.857E-02 extrapolated	2.857E-02 extrapolated*	2.857E-02 extrapolated	-Liver

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Chlorothalonil [or Bravo]	1 RAGS-E	NA	1.500E-02 IRIS Medium	1.500E-02 extrapolated	1.500E-02 extrapolated	-Kidney
Chlorotoluene, o-	1 RAGS-E	NA	2.000E-02 IRIS Low	2.000E-02 extrapolated	2.000E-02 extrapolated	-Body Weight
Chlorotoluene, p-	1 RAGS-E	NA	2.000E-02 HAL	2.000E-02 extrapolated	2.000E-02 extrapolated	-None Specified
Chlorpropham	1 RAGS-E	NA	2.000E-01 IRIS Medium	2.000E-01 extrapolated	2.000E-01 extrapolated	-Bone Marrow -Kidney -Liver -Spleen
Chlorpyrifos	0.9 HSDB	NA	3.000E-03 IRIS Medium	2.700E-03 extrapolated	2.700E-03 extrapolated	-Neurological
Chlorpyrifos, methyl	1 RAGS-E	NA	1.000E-02 HEAST	NA	NA	-Reproductive
Chlorsulfuron	1 RAGS-E	NA	5.000E-02 IRIS High	NA	NA	-Body Weight
Cobalt	0.25 HSDB	NA	2.000E-02 NCEA	5.000E-03 extrapolated	5.000E-03 extrapolated	-Cardiovascular -Immunological -Neurological -Reproductive
Copper	0.56 ATSDR	NA	4.000E-02 HEAST	NA	NA	-Gastrointestinal
Coumaphos	1 RAGS-E	NA	2.500E-04 OPP	2.500E-04 extrapolated	2.500E-04 extrapolated	-Neurological
Cumene [or isopropyl benzene]	1 RAGS-E	4.000E-01 IRIS Medium	1.000E-01 IRIS Low	1.143E-01 extrapolated*	1.000E-01 extrapolated	-Adrenals -Kidney
Cyanazine	1 RAGS-E	NA	2.000E-03 HEAST	NA	NA	
Cyanide, free	1 RAGS-E	NA	2.000E-02 IRIS Medium	2.000E-02 extrapolated	2.000E-02 extrapolated	-Neurological -Thyroid

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Cyanogen	1 RAGS-E	NA	4.000E-02 IRIS Medium	4.000E-02 extrapolated	4.000E-02 extrapolated	-Neurological -Thyroid
Cycloate	1 RAGS-E	NA	5.000E-03 OPP	5.000E-03 extrapolated	5.000E-03 extrapolated	-Neurological
Cyclohexanone	1 RAGS-E	NA	5.000E+00 IRIS Medium	5.000E+00 extrapolated	5.000E+00 extrapolated	
Cyclohexylamine	1 RAGS-E	NA	2.000E-01 IRIS High	NA	NA	-Reproductive
Cyhalothrin [or Karate]	1 RAGS-E	NA	5.000E-03 IRIS High	5.000E-03 extrapolated	5.000E-03 extrapolated	-Developmental
Cymene, p- [or Isopropyl toluene, 4-]	1 RAGS-E	3.300E-01 CEHT	1.000E-01 extrapolated	1.000E-01 OEL	1.000E-01 extrapolated	-Gastrointestinal -Neurological -Skin
Cypermethrin	1 RAGS-E	NA	1.000E-02 IRIS High	1.000E-02 extrapolated	1.000E-02 extrapolated	-Gastrointestinal
Dacthal [or DCPA]	1 RAGS-E	NA	1.000E-02 IRIS High	NA	NA	-Eye -Kidney -Liver -Respiratory -Thyroid
Dalapon	1 RAGS-E	NA	3.000E-02 IRIS Low	NA	NA	-Kidney
DEET		NA	9.000E-01 extrapolated	NA	NA	-Body Weight
Demeton		NA	4.000E-05 IRIS Low	NA	NA	-Eye -Neurological
Diallate	1 RAGS-E	NA	5.000E-03 OPP	5.000E-03 extrapolated	5.000E-03 extrapolated	-None Specified
Diazinon	1 RAGS-E	NA	9.000E-04 HEAST	9.000E-04 extrapolated	9.000E-04 extrapolated	-Neurological

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RFc (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Dibenzofuran	1 RAGS-E	NA	4.00E-03 NCEA	4.00E-03 extrapolated	4.00E-03 extrapolated	-None Specified
Dibromo-3-chloropropane, 1,2- [or DBCP, 1,2-]	1 RAGS-E	2.00E-04 IRIS Medium	5.714E-05 extrapolated	5.714E-05 extrapolated*	5.714E-05 extrapolated	-Reproductive
Dibromochloromethane	0.75 ATSDR	NA	2.00E-02 IRIS Medium	1.50E-02 extrapolated	1.50E-02 extrapolated	-Liver
Dibromoethane, 1,2- [or EDB]	0.98 ATSDR	9.00E-03 IRIS	9.00E-03 IRIS	2.57E-03 extrapolated*	8.820E-03 extrapolated	-Reproductive
Dibutyl phthalate	1 ATSDR	NA	1.00E-01 IRIS Low	1.00E-01 extrapolated	1.00E-01 extrapolated	-Mortality
Dicamba	1 RAGS-E	NA	3.00E-02 IRIS High	3.00E-02 extrapolated	3.00E-02 extrapolated	-Developmental
Dichloroacetic acid	1 RAGS-E	NA	4.00E-03 IRIS Medium	4.00E-03 extrapolated	4.00E-03 extrapolated	-Liver -Neurological -Reproductive
Dichloroacetonitrile	1 RAGS-E	NA	8.00E-03 HAL	8.00E-03 extrapolated	8.00E-03 extrapolated	-None Specified
Dichlorobenzene, 1,2-	1 RAGS-E	2.00E-01 HEAST	9.00E-02 IRIS Low	5.714E-02 extrapolated*	9.00E-02 extrapolated	-Body Weight
Dichlorobenzene, 1,3-	1 RAGS-E	NA	3.00E-02 NCEA	3.00E-02 extrapolated	3.00E-02 extrapolated	-None Specified
Dichlorobenzene, 1,4-	1 ATSDR	8.00E-01 IRIS Medium	3.00E-02 NCEA	2.28E-01 extrapolated*	3.00E-02 extrapolated	-Liver
Dichlorobenzophenone, 4,4'-	1 RAGS-E	NA	3.00E-02 NCEA Low	3.00E-02 extrapolated	3.00E-02 extrapolated	-None Specified
Dichlorodifluoromethane	1 RAGS-E	2.00E-01 HEAST	2.00E-01 IRIS Medium	5.714E-02 extrapolated*	2.00E-01 extrapolated	-Liver

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RIC (mg/m ³)	RfDo (mg/kg-day) IRIS Medium	RfDi (mg/kg-day) extrapolated	RfDd (mg/kg-day) extrapolated	Default Non-Cancer Target Organs/Systems or Effects†
Dichlorodiphenyltrichloroethane, p,p'- [or DDT, 4,4'-]	0.8 ATSDR	NA	5.000E-04 IRIS Medium	4.000E-04 extrapolated	4.000E-04 extrapolated	-Liver
Dichloroethane, 1,1-	1 RAGS-E	5.000E-01 HEAST	1.000E-01 HEAST	1.429E-01 extrapolated*	1.000E-01 extrapolated	-Kidney
Dichloroethane, 1,2- [or EDC]	1 ATSDR	NA	3.000E-02 NCEA	3.000E-02 extrapolated	3.000E-02 extrapolated	-None Specified
Dichloroethene, 1,1-	1 ATSDR	2.000E-01 IRIS Medium	5.000E-02 IRIS Medium	5.714E-02 extrapolated*	5.000E-02 extrapolated	-Liver
Dichloroethene, 1,2- (mixture)		NA	9.000E-03 HEAST	NA	NA	-Blood -Liver
Dichloroethene, cis-1,2-	1 RAGS-E	NA	1.000E-02 HEAST	1.000E-02 extrapolated	1.000E-02 extrapolated	-Blood
Dichloroethene, trans-1,2-	1 RAGS-E	NA	2.000E-02 IRIS Low	2.000E-02 extrapolated	2.000E-02 extrapolated	-Blood -Liver
Dichlorophenol, 2,3-	1 RAGS-E	NA	3.000E-03 Surrogate (c)	3.000E-03 extrapolated	3.000E-03 extrapolated	-Immunological
Dichlorophenol, 2,4-	1 RAGS-E	NA	3.000E-03 IRIS Low	3.000E-03 extrapolated	3.000E-03 extrapolated	-Immunological
Dichlorophenol, 2,5-	1 RAGS-E	NA	3.000E-03 Surrogate (c)	3.000E-03 extrapolated†	3.000E-03 extrapolated	-Immunological
Dichlorophenol, 2,6-	1 RAGS-E	NA	3.000E-03 Surrogate (c)	3.000E-03 extrapolated	3.000E-03 extrapolated	-Immunological
Dichlorophenol, 3,4-	1 RAGS-E	NA	3.000E-03 Surrogate (c)	3.000E-03 extrapolated	3.000E-03 extrapolated	-Immunological
Dichlorophenoxy acetic acid, 2,4-	1 HSDB	NA	1.000E-02 IRIS Medium	1.000E-02 extrapolated	1.000E-02 extrapolated	-Blood -Kidney -Liver

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day) (IRIS Low)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Dichlorophenoxy butyric acid, 2,4- [or DB, 2,4-]		NA	8.000E-03 IRIS Low	NA	NA	-Blood -Cardiovascular
Dichloropropane, 1,2-	1 ATSDR	4.000E-03 IRIS Medium	NA	1.143E-03 extrapolated*	NA	-Nasal
Dichloropropene, 1,3-	0.98 ATSDR	2.000E-02 IRIS High	3.000E-02 IRIS High	5.714E-03 extrapolated*	NA	-Gastrointestinal -Nasal
Dichloroprop	1 RAGS-E	NA	5.000E-03 OPP	5.000E-03 extrapolated	5.000E-03 extrapolated	-None Specified
Dichlorovos	0.96 HSDB	5.000E-04 IRIS Medium	5.000E-04 IRIS Medium	1.429E-04 extrapolated*	4.800E-04 extrapolated	-Neurological
Dicofol [or Kelthane]	1 RAGS-E	NA	1.200E-03 OPP	1.200E-03 extrapolated	1.200E-03 extrapolated	-Adrenals
Dieldrin	1 HSDB	NA	5.000E-05 IRIS Medium	5.000E-05 extrapolated	5.000E-05 extrapolated	-Liver
Diethyl phthalate	1 HSDB	NA	8.000E-01 IRIS Low	8.000E-01 extrapolated	8.000E-01 extrapolated	-Body Weight
Diethylene glycol, monoethyl ether	1 RAGS-E	NA	2.000E+00 HEAST	2.000E+00 extrapolated	2.000E+00 extrapolated	-Kidney
Diisopropyl methylphosphonate	1 RAGS-E	NA	8.000E-02 IRIS Low	8.000E-02 extrapolated	8.000E-02 extrapolated	-None Specified
Dimethoate	1 RAGS-E	NA	2.000E-04 IRIS Medium	2.000E-04 extrapolated	2.000E-04 extrapolated	-Neurological
Dimethrin	1 RAGS-E	NA	3.000E-01 OPP	3.000E-01 extrapolated	3.000E-01 extrapolated	-Liver
Dimethylaniline, N,N-	1 RAGS-E	NA	2.000E-03 IRIS Low	2.000E-03 extrapolated	2.000E-03 extrapolated	-Spleen

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (ug/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Dimethylformamide, N,N-	1 RAGS-E	3.000E-02 IRIS Medium	1.000E-01 HEAST	8.571E-03 extrapolated*	1.000E-01 extrapolated	-Gastrointestinal -Liver
Dimethylphenol, 2,4-	1 RAGS-E	NA	2.000E-02 IRIS Low	2.000E-02 extrapolated	2.000E-02 extrapolated	-Blood -Neurological
Dimethylphenol, 2,6-	1 RAGS-E	NA	6.000E-04 IRIS Low	6.000E-04 extrapolated	6.000E-04 extrapolated	-Kidney -Liver -Spleen
Dimethylphenol, 3,4-	1 RAGS-E	NA	1.000E-03 IRIS Low	1.000E-03 extrapolated	1.000E-03 extrapolated	-Kidney -Liver -Spleen
Dimethylphthalate	1 HSDB	NA	1.000E+01 HEAST-WD	1.000E+01 extrapolated	1.000E+01 extrapolated	-Kidney
Dinitrobenzene, 1,2- (o)	1 RAGS-E	NA	4.000E-04 HEAST	4.000E-04 extrapolated	4.000E-04 extrapolated	-Spleen
Dinitrobenzene, 1,3- (m)	1 RAGS-E	NA	1.000E-04 IRIS Low	1.000E-04 extrapolated	1.000E-04 extrapolated	-Spleen
Dinitrobenzene, 1,4- (p)	1 RAGS-E	NA	4.000E-04 HEAST	NA	NA	-Spleen
Dinitro-o-cyclohexylphenol		NA	2.000E-03 IRIS Low	NA	NA	-Eye
Dinitrophenol, 2,4-	1 RAGS-E	NA	2.000E-03 IRIS Low	2.000E-03 extrapolated	2.000E-03 extrapolated	-Eye
Dinitrotoluene, 2,4-	1 HSDB	NA	2.000E-03 IRIS High	2.000E-03 extrapolated	2.000E-03 extrapolated	-Liver -Neurological
Dinitrotoluene, 2,6-	1 RAGS-E	NA	1.000E-03 HEAST	1.000E-03 extrapolated	1.000E-03 extrapolated	-Blood -Kidney -Neurological
Di-n-octylphthalate	1 RAGS-E	NA	2.000E-02 HEAST	2.000E-02 extrapolated	2.000E-02 extrapolated	-Kidney -Liver

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day) IRIS Low	RfDi (mg/kg-day) extrapolated	RfDd (mg/kg-day) extrapolated	Default Non-Cancer Target Organs/Systems or Effects†
Dinoseb	1 HSDB	NA	1.000E-03 IRIS Low	1.000E-03 extrapolated	1.000E-03 extrapolated	-Developmental
Diphenamid	1 RAGS-E	NA	3.000E-02 IRIS Medium	3.000E-02 extrapolated	3.000E-02 extrapolated	-Liver
Diphenylamine, N,N-	1 RAGS-E	NA	2.500E-02 IRIS Medium	2.500E-02 extrapolated	2.500E-02 extrapolated	-Kidney -Liver
Diquat	1 RAGS-E	NA	2.200E-03 IRIS Medium	2.200E-03 extrapolated	2.200E-03 extrapolated	-Eye
Disulfoton	0.939 ATSDR	NA	4.000E-05 IRIS Medium	3.756E-05 extrapolated	3.756E-05 extrapolated	-Neurological
Diuron	0.9 HSDB	NA	2.000E-03 IRIS Low	1.800E-03 extrapolated	1.800E-03 extrapolated	-Blood
Endosulfan (alpha+beta+sulfate)	0.815 ATSDR	NA	6.000E-03 IRIS Medium	4.890E-03 extrapolated	4.890E-03 extrapolated	-Cardiovascular -Kidney
Endothall	1 RAGS-E	NA	2.000E-02 IRIS Medium	NA	NA	-Gastrointestinal
Endrin	1 RAGS-E	NA	3.000E-04 IRIS Medium	3.000E-04 extrapolated	3.000E-04 extrapolated	-Liver
Epichlorohydrin	1 RAGS-E	1.000E-03 IRIS Medium	2.000E-03 HEAST	2.857E-04 extrapolated*	2.000E-03 extrapolated	-Kidney -Nasal
Ethanol	1 RAGS-E	NA	5.700E+01 CEHT	5.700E+01 extrapolated	5.700E+01 extrapolated	-Developmental
Ethion	1 HSDB	NA	5.000E-04 IRIS Medium	5.000E-04 extrapolated	5.000E-04 extrapolated	-Neurological
Ethoprop	1 RAGS-E	NA	1.000E-04 OPP	1.000E-04 extrapolated	1.000E-04 extrapolated	-Neurological

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Ethoxyethanol acetate, 2-	1 RAGS-E	NA	3.000E-01 HEAST	3.000E-01 extrapolated	3.000E-01 extrapolated	-Developmental
Ethoxyethanol, 2-	1 RAGS-E	2.000E-01 IRIS Medium	4.000E-01 HEAST	5.714E-02 extrapolated*	4.000E-01 extrapolated	-Reproductive
Ethyl acetate	1 RAGS-E	NA	9.000E-01 IRIS Low	9.000E-01 extrapolated	9.000E-01 extrapolated	-Body Weight
Ethyl chloride [or Chloroethane]	1 RAGS-E	1.000E+01 IRIS Medium	4.000E-01 NCEA	2.857E+00 extrapolated*	4.000E-01 extrapolated	-Developmental
Ethyl dipropylthiocarbamate, S- [or EPTC]	0.96 HSDB	NA	2.500E-02 IRIS Medium	2.400E-02 extrapolated	2.400E-02 extrapolated	-Cardiovascular
Ethyl ether	1 RAGS-E	NA	2.000E-01 IRIS Low	2.000E-01 extrapolated	2.000E-01 extrapolated	-Body Weight
Ethyl methacrylate	1 RAGS-E	NA	9.000E-02 HEAST	9.000E-02 extrapolated	9.000E-02 extrapolated	-Kidney
Ethyl p-nitrophenyl phenylphosphorothioate [or EPN]	1 HSDB	NA	1.000E-05 IRIS Medium	1.000E-05 extrapolated	1.000E-05 extrapolated	-Neurological
Ethylbenzene	1 RAGS-E	1.000E+00 IRIS Low	1.000E-01 IRIS Low	2.857E-01 extrapolated*	NA	-Developmental -Kidney -Liver
Ethylene diamine	1 RAGS-E	NA	2.000E-02 HEAST	2.000E-02 extrapolated	2.000E-02 extrapolated	-Blood -Cardiovascular
Ethylene glycol	1 RAGS-E	NA	2.000E+00 IRIS High	2.000E+00 extrapolated	2.000E+00 extrapolated	-Kidney
Ethylene thiourea [or ETU]	1 RAGS-E	NA	8.000E-05 IRIS Medium	NA	NA	-Thyroid
Ethylphthalyl ethylglycolate [or EPEG]	1 RAGS-E	NA	3.000E+00 IRIS Low	NA	NA	-Kidney

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day) CEHT Low	RfDi (mg/kg-day) extrapolated	RfDd (mg/kg-day) extrapolated	Default Non-Cancer Target Organs/Systems or Effects†
Ethyltoluene, o-	1 RAGS-E	NA	3.000E-02	3.000E-02	3.000E-02	-Body Weight -Liver
Ethyltoluene, p-	1 RAGS-E	NA	3.000E-02	3.000E-02	3.000E-02	-Body Weight -Liver
Famphur		NA	5.000E-04	NA	NA	-Blood
Fenamiphos	1 RAGS-E	NA	2.500E-04	2.500E-04	2.500E-04	-Neurological
Fensulfothion	1 RAGS-E	NA	2.500E-04	2.500E-04	2.500E-04	-Neurological
Fluometuron	1 RAGS-E	NA	1.300E-02	1.300E-02	1.300E-02	-None Specified
Fluoranthene	0.5 ATSDR	NA	4.000E-02	2.000E-02	2.000E-02	-Blood -Kidney -Liver
Fluorene	0.5 ATSDR	NA	4.000E-02	2.000E-02	2.000E-02	-Blood
Fluoride	0.97 ATSDR	NA	6.000E-02	5.820E-02	5.820E-02	-Teeth mottling
Fluoridone	1 RAGS-E	NA	8.000E-02	NA	NA	-Kidney -Reproductive
Fonofos	0.815 fSDB	NA	2.000E-03	1.630E-03	1.630E-03	-Liver -Neurological
Formaldehyde	1 RAGS-E	NA	2.000E-01	2.000E-01	2.000E-01	-Gastrointestinal
Formic acid		NA	2.000E+00	NA	NA	-Body Weight

MS

Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Furfural	1 RAGS-E	5.00E-02 HEAST	3.00E-03 IRIS Low	1.429E-02 extrapolated*	3.00E-03 extrapolated	-Liver -Nasal
Glycidaldehyde	1 RAGS-E	1.00E-03 HEAST	4.00E-04 IRIS Low	2.857E-04 extrapolated*	4.00E-04 extrapolated	-Adrenals -Blood -Kidney
Glyphosate [or Roundup]	1 RAGS-E	NA	1.00E-01 IRIS High	NA	NA	-Kidney
Guthion [or Methyl azinphos]	1 HSDB	NA	1.50E-03 OPP	1.50E-03 extrapolated	1.50E-03 extrapolated	-Neurological
Heptachlor	0.8 ATSDR	NA	5.00E-04 IRIS Low	4.00E-04 extrapolated	4.00E-04 extrapolated	-Liver
Heptachlor epoxide	0.4 ATSDR	NA	1.30E-05 IRIS Low	5.20E-06 extrapolated	5.20E-06 extrapolated	-Liver
Hexachloro-1,3-butadiene	1 ATSDR	NA	2.00E-04 HEAST	2.00E-04 extrapolated	2.00E-04 extrapolated	-Kidney
Hexachlorobenzene	0.8 ATSDR	NA	8.00E-04 IRIS Medium	6.40E-04 extrapolated	6.40E-04 extrapolated	-Liver
Hexachlorocyclohexane, delta- [or BHC, delta-]	0.919 ATSDR	NA	3.00E-04 Surrogate (d)	2.757E-04 extrapolated	2.757E-04 extrapolated	-Kidney -Liver
Hexachlorocyclohexane, gamma- [or Lindane or BHC, gamma-]	0.994 ATSDR	NA	3.00E-04 IRIS Medium	2.982E-04 extrapolated	2.982E-04 extrapolated	-Kidney -Liver
Hexachlorocyclopentadiene	0.9 HSDB	2.00E-04 IRIS Medium	6.00E-03 IRIS Low	5.714E-05 extrapolated*	5.40E-03 extrapolated	-Gastrointestinal
Hexachloroethane	1 RAGS-E	NA	1.00E-03 IRIS Medium	1.00E-03 extrapolated	1.00E-03 extrapolated	-Kidney
Hexachlorophene	1 RAGS-E	NA	3.00E-04 IRIS Medium	NA	NA	-Neurological

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Hexahydro-1,3,5-trinitro-1,3,5-triazine [or RDX]	1 RAGS-E	NA	3.000E-03 IRIS High	3.000E-03 extrapolated	3.000E-03 extrapolated	-Reproductive
Hexane, n-	1 RAGS-E	2.000E-01 IRIS Medium	6.000E-02 HEAST	5.714E-02 extrapolated*	6.000E-02 extrapolated	-Neurological
Hexanone, 2- [or Methyl butyl ketone]	0.98 ATSDR	NA	4.000E-02 NCEA	1.400E-03 NCEA	3.920E-02 extrapolated	-None Specified
Hexazinone	1 RAGS-E	NA	3.300E-02 IRIS Medium	3.300E-02 extrapolated	3.300E-02 extrapolated	-Body Weight
Hydrogen cyanide (as Cyanide)		3.000E-03 IRIS Low	2.000E-02 IRIS Medium	8.571E-04 extrapolated*	NA	-Neurological -Thyroid
Hydrogen sulfide		2.000E-03 IRIS Medium	3.000E-03 IRIS-WD Low	5.714E-04 extrapolated*	NA	-Gastrointestinal -Nasal
Hydroquinone	1 RAGS-E	NA	4.000E-02 HEAST	4.000E-02 extrapolated	4.000E-02 extrapolated	-Blood
Iprodione		NA	4.000E-02 IRIS High	NA	NA	-Blood
Iron	0.085 Casarett 4th	NA	6.000E-01 NCEA	NA	NA	-Gastrointestinal
Isobutyl alcohol	1 RAGS-E	NA	3.000E-01 IRIS Low	3.000E-01 extrapolated	3.000E-01 extrapolated	-Neurological
Isophorone	1 RAGS-E	NA	2.000E-01 IRIS Low	2.000E-01 extrapolated	2.000E-01 extrapolated	-None Specified
Kepon		NA	3.000E-04 NCEA	NA	NA	
Limonene	1 RAGS-E	NA	1.000E-01 CEHT	1.000E-01 extrapolated	1.000E-01 extrapolated	-Kidney -Liver

MF

Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Linuron	1 RAGS-E	NA	2.000E-03 IRIS High	2.000E-03 extrapolated	2.000E-03 extrapolated	-Blood
Lithium	1 RAGS-E	NA	2.000E-02 NCEA	2.000E-02 extrapolated	2.000E-02 extrapolated	-None Specified
Malathion	0.47 HSDB	NA	2.000E-02 IRIS Medium	9.400E-03 extrapolated	9.400E-03 extrapolated	-Neurological
Maleic anhydride	1 RAGS-E	NA	1.000E-01 IRIS Medium	1.000E-01 extrapolated	1.000E-01 extrapolated	-Kidney
Maleic hydrazide	1 RAGS-E	NA	5.000E-01 IRIS Medium	5.000E-01 extrapolated	5.000E-01 extrapolated	-Kidney
Malonitrile	1 RAGS-E	NA	2.000E-05 HEAST	2.000E-05 extrapolated	2.000E-05 extrapolated	-Liver -Spleen
Mancozeb		NA	3.000E-02 HEAST	NA	NA	-Thyroid
Maneb	1 RAGS-E	NA	5.000E-03 IRIS Low	5.000E-03 extrapolated	5.000E-03 extrapolated	-Thyroid
Manganese	0.04 RAGS-E	5.000E-05 IRIS Medium	4.700E-02 IRIS02 Modified Medium	1.429E-05 extrapolated*	1.880E-03 extrapolated	-Neurological
Mercuric chloride (as Mercury)	0.07 RAGS-E	NA	3.000E-04 IRIS High	NA	NA	-immunological -Kidney
Mercury	0.1 ATSDR	3.000E-04 IRIS Medium	3.000E-04 HEAST	8.571E-05 extrapolated*	3.000E-05 extrapolated	-Neurological
Merphos	1 RAGS-E	NA	3.000E-05 IRIS Low	3.000E-05 extrapolated	3.000E-05 extrapolated	-Neurological
Merphos oxide	1 RAGS-E	NA	3.000E-05 IRIS Low	3.000E-05 extrapolated	3.000E-05 extrapolated	-Neurological

NR

Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfD ₀ (mg/kg-day) IRIS High	RfDi (mg/kg-day) NA	RfDd (mg/kg-day) NA	Default Non-Cancer Target Organs/Systems or Effects
Metalaxyl		NA	6.000E-02 IRIS High	NA	NA	-Blood -Liver -Neurological
Methacrylonitrile	1 RAGS-E	7.000E-04 HEAST	1.000E-04 IRIS Low	2.000E-04 extrapolated*	1.000E-04 extrapolated	-Liver
Methamidophos	1 RAGS-E	NA	5.000E-05 IRIS Medium	5.000E-05 extrapolated	5.000E-05 extrapolated	-Neurological
Methanol	1 RAGS-E	NA	5.000E-01 IRIS Medium	5.000E-01 extrapolated	5.000E-01 extrapolated	-Developmental -Eye -Neurological
Methidathion	1 RAGS-E	NA	1.000E-03 IRIS High	1.000E-03 extrapolated	1.000E-03 extrapolated	-Liver
Methomyl	1 RAGS-E	NA	2.500E-02 IRIS High	2.500E-02 extrapolated	2.500E-02 extrapolated	-Kidney -Spleen
Methoxychlor	0.9 ATSDR	NA	5.000E-03 IRIS Low	4.500E-03 extrapolated	4.500E-03 extrapolated	-Developmental -Reproductive
Methoxyethanol, 2-		2.000E-02 IRIS Medium	1.000E-03 HEAST	5.714E-03 extrapolated*	NA	-Reproductive
Methyl acetate	1 RAGS-E	NA	1.000E+00 HEAST	1.000E+00 extrapolated	1.000E+00 extrapolated	-Liver
Methyl acrylate	1 RAGS-E	NA	3.000E-02 HEAST	3.000E-02 extrapolated	3.000E-02 extrapolated	-None Specified
Methyl chloride [or Chloromethane]	1 RAGS-E	9.000E-02 IRIS Medium	2.571E-02 extrapolated	2.571E-02 extrapolated*	2.571E-02 extrapolated	-Neurological
Methyl ethyl ketone [or Butanone, 2-]	1 RAGS-E	5.000E+00 IRIS Medium	6.000E-01 IRIS Low	1.429E+00 extrapolated*	6.000E-01 extrapolated	-Developmental
Methyl isobutyl ketone [or MIBK]	1 RAGS-E	3.000E+00 IRIS Medium	8.000E-02 HEAST	8.571E-01 extrapolated*	8.000E-02 extrapolated	-Kidney -Liver

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Methyl methacrylate	1 RAGS-E	7.000E-01 IRIS Medium/High	1.400E+00 IRIS Low/Medium	2.000E-01 extrapolated*	1.400E+00 extrapolated	-Nasal
Methyl parathion [or Parathion, methyl]	0.8 ATSDR	NA	2.500E-04 IRIS Medium	2.000E-04 extrapolated	2.000E-04 extrapolated	-Blood -Neurological
Methyl styrene (mixed)	1 RAGS-E	4.000E-02 HEAST	6.000E-03 HEAST	1.143E-02 extrapolated*	6.000E-03 extrapolated	-Nasal
Methyl styrene, alpha	1 RAGS-E	NA	7.000E-02 HEAST	7.000E-02 extrapolated	7.000E-02 extrapolated	-Kidney -Liver
Methyl tert-butyl ether [or MTBE]	1 RAGS-E	3.000E+00 IRIS Medium	8.571E-01 extrapolated	8.571E-01 extrapolated*	8.571E-01 extrapolated	-Eye -Kidney -Liver
Methyl-4-chlorophenoxy acetic acid, 2- [or MCPA]	0.932 HSDB	NA	5.000E-04 IRIS Medium	4.660E-04 extrapolated	4.660E-04 extrapolated	-Kidney -Liver
Methylene bis(2-chloroaniline), 4,4-	1 RAGS-E	NA	7.000E-04 HEAST	7.000E-04 extrapolated	7.000E-04 extrapolated	-Liver -Bladder
Methylene bromide	1 RAGS-E	NA	1.000E-02 HEAST	1.000E-02 extrapolated	1.000E-02 extrapolated	-Blood
Methylene chloride	1 ATSDR	3.000E+00 HEAST	6.000E-02 IRIS Medium	8.571E-01 extrapolated*	6.000E-02 extrapolated	-Liver
Methylmercury [or Mercury, methyl]	0.95 ATSDR	NA	1.000E-04 IRIS High	9.500E-05 extrapolated	9.500E-05 extrapolated	-Neurological
Methylnaphthalene, 1-	1 RAGS-E	NA	4.000E-03 Surrogate (e)	4.000E-03 extrapolated	4.000E-03 extrapolated	-Nasal
Methylnaphthalene, 2-	1 RAGS-E	NA	4.000E-03 IRIS Low	4.000E-03 extrapolated	4.000E-03 extrapolated	-Nasal
Methylphenol, 2- [or Cresol, o-]	0.745 ATSDR	NA	5.000E-02 IRIS Medium	3.725E-02 extrapolated	3.725E-02 extrapolated	-Neurological

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Methylphenol, 3- [or Cresol, m-]	0.745 ATSDR	NA	5.000E-02 IRIS Medium	3.725E-02 extrapolated	3.725E-02 extrapolated	-Neurological
Methylphenol, 4- [or Cresol, p-]	0.745 ATSDR	NA	5.000E-03 HEAST	3.725E-03 extrapolated	3.725E-03 extrapolated	-Neurological -Respiratory
Metolachlor	1 RAGS-E	NA	1.500E-01 IRIS High	1.500E-01 extrapolated	1.500E-01 extrapolated	-Body Weight
Metribuzin	1 RAGS-E	NA	2.500E-02 IRIS Medium	2.500E-02 extrapolated	2.500E-02 extrapolated	-Kidney -Liver
Mevinphos	1 HSDB	NA	2.500E-04 OPP	2.500E-04 extrapolated	2.500E-04 extrapolated	-Neurological
Mirex		NA	2.000E-04 IRIS High	NA	NA	-Liver -Thyroid
Molinate	0.865 HSDB	NA	2.000E-03 IRIS Low	1.730E-03 extrapolated	1.730E-03 extrapolated	-Reproductive
Molybdenum	0.45 HSDB	NA	5.000E-03 IRIS Medium	2.250E-03 extrapolated	2.250E-03 extrapolated	-Gout
Naled	1 HSDB	NA	2.000E-03 IRIS Medium	2.000E-03 extrapolated	2.000E-03 extrapolated	-Neurological
Naphthalene	1 ATSDR	3.000E-03 IRIS Medium	2.000E-02 IRIS Low	8.571E-04 extrapolated**	2.000E-02 extrapolated	-Nasal
Napropamide		NA	1.000E-01 IRIS Medium	NA	NA	-Body Weight
Nickel	0.05 ATSDR	NA	2.000E-02 IRIS Medium	1.000E-03 extrapolated	1.000E-03 extrapolated	-Body Weight
Nitrate	1 RAGS-E	NA	1.600E+00 IRIS High	1.600E+00 extrapolated	1.600E+00 extrapolated	-Blood

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Nitrite	1 RAGS-E	NA	1.000E-01 IRIS High	1.000E-01 extrapolated	1.000E-01 extrapolated	-Blood
Nitroaniline, m-	1 RAGS-E	NA	3.000E-04 NCEA	3.000E-04 extrapolated	3.000E-04 extrapolated	-Blood
Nitroaniline, o-	1 RAGS-E	2.000E-04 HEAST	3.000E-03 NCEA	5.714E-05 extrapolated*	3.000E-03 extrapolated	-Blood
Nitroaniline, p-	1 RAGS-E	2.000E-04 Surrogate (f)	3.000E-03 NCEA	5.714E-05 extrapolated*	3.000E-03 extrapolated	-Blood
Nitrobenzene	1 RAGS-E	2.000E-03 HEAST	5.000E-04 IRIS Low	5.714E-04 extrapolated*	5.000E-04 extrapolated	-Adrenals -Blood -Kidney -Liver
Nitroglycerin	0.1 Prof/Judge	NA	7.000E-04 CEHT	3.000E-04 CEHT	7.000E-05 extrapolated	-Cardiovascular
Nitrophenol, 4-	1 RAGS-E	NA	8.000E-03 NCEA	8.000E-03 extrapolated	8.000E-03 extrapolated	-None Specified
Nitrotoluene, m-	1 RAGS-E	NA	2.000E-02 NCEA	2.000E-02 extrapolated	2.000E-02 extrapolated	-Spleen
Nitrotoluene, o-	1 RAGS-E	NA	1.000E-02 HEAST	1.000E-02 extrapolated	1.000E-02 extrapolated	-Spleen
Nitrotoluene, p-	1 RAGS-E	NA	1.000E-02 HEAST	1.000E-02 extrapolated	1.000E-02 extrapolated	-Spleen
Nonylphenol	1 RAGS-E	NA	1.200E-03 Other†	1.200E-03 extrapolated	1.200E-03 extrapolated	-Kidney
Norflurazon		NA	4.000E-02 IRIS High	NA	NA	-Kidney -Liver -Thyroid
Octahydro-1,3,5,7-tetranitro-tetrazocine [or HMX]		NA	5.000E-02 IRIS Low	NA	NA	-Blood -Liver

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Octamethylpyrophosphoramide	1 RAGS-E	NA	2.000E-03 HEAST	2.000E-03 extrapolated	2.000E-03 extrapolated	-Neurological
Oryzalin		NA	5.000E-02 IRIS High	NA	NA	-Adrenals -Blood -Kidney -Liver
Oxadiazon		NA	5.000E-03 IRIS Medium	NA	NA	-Liver
Oxamyl	1 RAGS-E	NA	2.500E-02 IRIS Medium	2.500E-02 extrapolated	2.500E-02 extrapolated	-Body Weight
Paraquat	0.2 HSDB	NA	4.500E-03 IRIS High	9.000E-04 extrapolated	9.000E-04 extrapolated	-Respiratory
Parathion	1 HSDB	NA	6.000E-03 HEAST	6.000E-03 extrapolated	6.000E-03 extrapolated	-Neurological
PCBs [or Aroclor mixture]	1 RAGS-E	NA	2.000E-05 IRIS (Aroclor 1254) Medium	2.000E-05 extrapolated	2.000E-05 extrapolated	-Immunological
Pebulate	0.95 HSDB	NA	5.000E-02 HEAST	4.750E-02 extrapolated	4.750E-02 extrapolated	-Blood
Pendimethalin	1 RAGS-E	NA	4.000E-02 IRIS Medium	4.000E-02 extrapolated	4.000E-02 extrapolated	-Liver
Pentachlorobenzene	1 RAGS-E	NA	8.000E-04 IRIS Low	8.000E-04 extrapolated	8.000E-04 extrapolated	-Kidney -Liver
Pentachloronitrobenzene	1 RAGS-E	NA	3.000E-03 IRIS Medium	3.000E-03 extrapolated	3.000E-03 extrapolated	-Liver
Pentachlorophenol	0.5 ATSDR	NA	3.000E-02 IRIS Medium	1.500E-02 extrapolated	1.500E-02 extrapolated	-Kidney -Liver
Perchlorate	1 RAGS-E	NA	5.700E-04 NCEA Low	5.700E-04 extrapolated	5.700E-04 extrapolated	-Thyroid

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Permethrin	1 RAGS-E	NA	5.000E-02 IRIS High	5.000E-02 extrapolated	5.000E-02 extrapolated	-Liver
Phenanthrene	0.5 ATSDR	NA	3.000E-02 Surrogate (a)	1.500E-02 extrapolated	1.500E-02 extrapolated	-Kidney
Phenmedipham [or Betanal]	1 RAGS-E	NA	2.500E-01 IRIS Medium	2.500E-01 extrapolated	2.500E-01 extrapolated	-None Specified
Phenol	1 ATSDR	NA	3.000E-01 IRIS Medium/High	3.000E-01 extrapolated	3.000E-01 extrapolated	-Developmental
Phenylenediamine, m-	1 RAGS-E	NA	6.000E-03 IRIS Low	6.000E-03 extrapolated	6.000E-03 extrapolated	-Liver
Phenylenediamine, p-	1 RAGS-E	NA	1.900E-01 HEAST	1.900E-01 extrapolated	1.900E-01 extrapolated	-Whole Body
Phorate	1 HSDB	NA	2.000E-04 HEAST	2.000E-04 extrapolated	2.000E-04 extrapolated	-Neurological
Phosmet	1 RAGS-E	NA	2.000E-02 IRIS High	2.000E-02 extrapolated	2.000E-02 extrapolated	-Liver -Neurological
Phosphine		3.000E-04 IRIS Low	3.000E-04 IRIS Medium	8.571E-05 extrapolated*	NA	-Body Weight
Phthalic acid, p-	1 RAGS-E	NA	1.000E+00 HEAST	1.000E+00 extrapolated	1.000E+00 extrapolated	-Bladder
Phthalic anhydride	1 RAGS-E	1.200E-01 HEAST	2.000E+00 IRIS Medium	3.429E-02 extrapolated*	2.000E+00 extrapolated	-Kidney -Nasal -Respiratory
Picloram		NA	7.000E-02 IRIS Medium	NA	NA	-Liver
Potassium cyanide		NA	5.000E-02 IRIS Medium	NA	NA	-Neurological -Thyroid

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Profluralin		NA	6.000E-03 HEAST	NA	NA	-None Specified
Prometon	1 RAGS-E	NA	1.500E-02 IRIS Low	1.500E-02 extrapolated	1.500E-02 extrapolated	-None Specified
Prometryn	1 RAGS-E	NA	4.000E-03 IRIS Low	4.000E-03 extrapolated	4.000E-03 extrapolated	-Bone Marrow -Kidney -Liver
Pronamide		NA	7.500E-02 IRIS Medium	NA	NA	-None Specified
Propachlor	1 RAGS-E	NA	1.300E-02 IRIS Low	1.300E-02 extrapolated	1.300E-02 extrapolated	-Liver
Propanil	1 RAGS-E	NA	5.000E-03 IRIS Medium	5.000E-03 extrapolated	5.000E-03 extrapolated	-Spleen
Propargite		NA	2.000E-02 IRIS Medium	NA	NA	-None Specified
Propazine	1 RAGS-E	NA	2.000E-02 IRIS Medium	2.000E-02 extrapolated	2.000E-02 extrapolated	-Body Weight
Propham		NA	2.000E-02 IRIS Low	NA	NA	-Neurological
Propiconazole		NA	1.300E-02 IRIS High	NA	NA	-Gastrointestinal
Propionic acid, 2-(2-methyl-4-chlorophenoxy) [or MCPP]	1 RAGS-E	NA	1.000E-03 IRIS Medium	1.000E-03 extrapolated	1.000E-03 extrapolated	-Kidney
Propylbenzene, n-	1 RAGS-E	NA	4.000E-02 NCEA Low	4.000E-02 extrapolated	4.000E-02 extrapolated	
Propylene glycol	1 RAGS-E	NA	2.000E+01 HEAST	2.000E+01 extrapolated	2.000E+01 extrapolated	-Blood -Bone Marrow

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Propylene glycol monomethyl ether	1 RAGS-E	2.00E+00 IRIS Medium	7.00E-01 HEAST	5.71E-01 extrapolated*	7.00E-01 extrapolated	-Kidney -Liver -Neurological
Propylene oxide	1 RAGS-E	3.00E-02 IRIS Medium	NA	8.57E-03 extrapolated*	NA	-Nasal -Respiratory
Pyridin [or Fenvalerate]	1 RAGS-E	NA	2.50E-02 IRIS High	2.50E-02 extrapolated	2.50E-02 extrapolated	-Neurological
Pyrene	0.5 ATSDR	NA	3.00E-02 IRIS Low	1.50E-02 extrapolated	1.50E-02 extrapolated	-Kidney
Pyridine	0.67 ATSDR	NA	1.00E-03 IRIS Medium	6.70E-04 extrapolated	6.70E-04 extrapolated	-Liver
Resmethrin	1 RAGS-E	NA	3.00E-02 IRIS High	3.00E-02 extrapolated	3.00E-02 extrapolated	-Reproductive
Ronnel	1 RAGS-E	NA	5.00E-02 HEAST	5.00E-02 extrapolated	5.00E-02 extrapolated	-Liver
Rotenone		NA	4.00E-03 IRIS Medium	NA	NA	-Developmental
Selenious acid (as Selenium)		NA	5.00E-03 IRIS High	NA	NA	-Hair Loss -Neurological -Skin
Selenium	0.97 ATSDR	NA	5.00E-03 IRIS High	4.85E-03 extrapolated	4.85E-03 extrapolated	-Hair Loss -Neurological -Skin
Silver	0.04 RAGS-E	NA	5.00E-03 IRIS Low	2.00E-04 extrapolated	2.00E-04 extrapolated	-Skin
Simazine	1 RAGS-E	NA	5.00E-03 IRIS High	5.00E-03 extrapolated	5.00E-03 extrapolated	-Blood
Sodium cyanide (as Cyanide)		NA	4.00E-02 IRIS Medium	NA	NA	-Neurological

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Strontium	1 RAGS-E	NA	6.000E-01 IRIS Medium	6.000E-01 extrapolated	6.000E-01 extrapolated	-Bone
Strychnine	1 RAGS-E	NA	3.000E-04 IRIS Low	3.000E-04 extrapolated	3.000E-04 extrapolated	-Mortality
Styrene	1 ATSDR	1.000E+00 IRIS Medium	2.000E-01 IRIS Medium	2.857E-01 extrapolated*	2.000E-01 extrapolated	-Blood -Liver -Neurological
Tebuthiuron		NA	7.000E-02 IRIS High	NA	NA	-Body Weight
Temephos		NA	2.000E-02 HEAST	NA	NA	-None Specified
Terbacil	1 RAGS-E	NA	1.300E-02 IRIS Medium	1.300E-02 extrapolated	1.300E-02 extrapolated	-Liver -Thyroid
Terbufos	1 RAGS-E	NA	2.500E-05 HEAST	2.500E-05 extrapolated	2.500E-05 extrapolated	-Neurological
Terbutryn	1 RAGS-E	NA	1.000E-03 IRIS High	NA	NA	-Blood
Tetrachlorobenzene, 1,2,4,5-	1 RAGS-E	NA	3.000E-04 IRIS Low	3.000E-04 extrapolated	3.000E-04 extrapolated	-Kidney
Tetrachloroethane, 1,1,1,2-	1 RAGS-E	NA	3.000E-02 IRIS Low	3.000E-02 extrapolated	3.000E-02 extrapolated	-Kidney -Liver
Tetrachloroethane, 1,1,2,2-	0.7 ATSDR	NA	6.000E-02 NCEA	4.200E-02 extrapolated	4.200E-02 extrapolated	-Liver
Tetrachloroethene [or PCE]	1 ATSDR	NA	1.000E-02 IRIS Medium	1.400E-01 NCEA	1.000E-02 extrapolated	-Liver
Tetrachlorophenol, 2,3,4,6-	1 RAGS-E	NA	3.000E-02 IRIS Medium	3.000E-02 extrapolated	3.000E-02 extrapolated	-Liver

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Tetraethyl dithiopyrophosphate	1 RAGS-E	NA	5.000E-04 IRIS Low	5.000E-04 extrapolated	5.000E-04 extrapolated	-Bone Marrow -Neurological
Thallium	1 RAGS-E	NA	7.000E-05 IRIS Low	7.000E-05 extrapolated	7.000E-05 extrapolated	-Hair Loss -Liver
Thiobencarb	1 RAGS-E	NA	1.000E-02 IRIS Medium	1.000E-02 extrapolated	1.000E-02 extrapolated	-Kidney
Thiocyanomethylthio-benzothiazole, 2- [or TCMTB]		NA	4.000E-03 OPP	NA	NA	-Gastrointestinal
Thiram	1 RAGS-E	NA	5.000E-03 IRIS Low	5.000E-03 extrapolated	5.000E-03 extrapolated	-Neurological
Tin	0.028 ATSDR	NA	6.000E-01 HEAST	1.680E-02 extrapolated	1.680E-02 extrapolated	-Kidney -Liver
Titanium Dioxide	0.2 KEJ	NA	4.000E+00 NCEA	8.000E-01 extrapolated	8.000E-01 extrapolated	
Toluene	1 RAGS-E	1.000E+01 IRIS Medium	2.000E-01 IRIS Low	2.857E+00 extrapolated*	2.000E-01 extrapolated	-Kidney -Liver -Neurological
Toluene diisocyanate, 2,4/2,6- mixture	1 RAGS-E	7.000E-05 IRIS Medium	2.000E-05 extrapolated	2.000E-05 extrapolated*	2.000E-05 extrapolated	-Respiratory
Toxaphene	0.63 HSDB	NA	2.500E-04 OPP	1.575E-04 extrapolated	1.575E-04 extrapolated	-Developmental
Triallate	1 RAGS-E	NA	1.300E-02 IRIS High	1.300E-02 extrapolated	1.300E-02 extrapolated	-Liver -Spleen
Tributyltin oxide	1 RAGS-E	NA	3.000E-04 IRIS High	3.000E-04 extrapolated	3.000E-04 extrapolated	-Immunological
Trichloro-1,2,2-trifluoroethane, 1,1,2- [or CFC 113]	1 RAGS-E	3.000E+01 HEAST	3.000E+01 IRIS Low	8.571E+00 extrapolated*	3.000E+01 extrapolated	-Neurological

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Table 5b - Technical Report
 Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Trichloroacetic acid	1 RAGS-E	NA	1.300E-02 HAL	1.300E-02 extrapolated	1.300E-02 extrapolated	-None Specified
Trichlorobenzene, 1,2,3-	1 RAGS-E	2.000E-01 Surrogate (g)	1.000E-02 Surrogate (g)	5.714E-02 extrapolated*	1.000E-02 extrapolated	-Adrenals
Trichlorobenzene, 1,2,4-	0.9 HSDB	2.000E-01 HEAST	1.000E-02 IRIS Medium	5.714E-02 extrapolated*	9.000E-03 extrapolated	-Adrenals
Trichlorobenzene, 1,3,5-	1 RAGS-E	NA	5.700E-03 HAL	5.700E-03 extrapolated	5.700E-03 extrapolated	-None Specified
Trichloroethane, 1,1,1- [or Methyl chloroform]	1 HSDB	NA	2.800E-01 NCEA	2.860E-01 NCEA	2.800E-01 extrapolated	-None Specified
Trichloroethane, 1,1,2-	0.81 ATSDR	NA	4.000E-03 IRIS Medium	3.240E-03 extrapolated	3.240E-03 extrapolated	-Liver
Trichloroethene [or TCE]	0.945 ATSDR	NA	6.000E-03 NCEA	5.670E-03 extrapolated	5.670E-03 extrapolated	-None Specified
Trichlorofluoromethane	1 RAGS-E	7.000E-01 HEAST	3.000E-01 IRIS Medium	2.000E-01 extrapolated*	3.000E-01 extrapolated	-Cardiovascular -Kidney -Respiratory
Trichlorophenol, 2,4,5-	1 RAGS-E	NA	1.000E-01 IRIS Low	1.000E-01 extrapolated	1.000E-01 extrapolated	-Kidney -Liver
Trichlorophenoxy acetic acid, 2,4,5-	0.95 HSDB	NA	1.000E-02 IRIS Medium	9.500E-03 extrapolated	9.500E-03 extrapolated	-Kidney
Trichlorophenoxy propionic acid, 2, (2, 4, 5-) [or Silvex]	1 HSDB	NA	8.000E-03 IRIS Medium	8.000E-03 extrapolated	8.000E-03 extrapolated	-Liver
Trichloropropane, 1,1,2-	1 RAGS-E	NA	5.000E-03 IRIS Low	5.000E-03 extrapolated	5.000E-03 extrapolated	-Kidney -Liver -Thyroid
Trichloropropane, 1,2,3-	1 RAGS-E	NA	6.000E-03 IRIS Low	6.000E-03 extrapolated	6.000E-03 extrapolated	-Kidney -Liver

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Trichloropropene, 1,2,3-	1 RAGS-E	NA	5.000E-03 HEAST	5.000E-03 extrapolated	5.000E-03 extrapolated	-Eye
Triethylamine	1 RAGS-E	7.000E-03 IRIS Low	2.000E-03 extrapolated	2.000E-03 extrapolated*	2.000E-03 extrapolated	-Nasal
Trifluralin	0.2 HSDB	NA	7.500E-03 IRIS High	1.500E-03 extrapolated	1.500E-03 extrapolated	-Blood -Liver
Trimethylbenzene, 1,2,3-	1 RAGS-E	NA	5.000E-02 Surrogate (h)	1.700E-03 Surrogate (g)	5.000E-02 extrapolated	-None Specified
Trimethylbenzene, 1,2,4-	1 RAGS-E	NA	5.000E-02 NCEA	1.700E-03 NCEA	5.000E-02 extrapolated	-None Specified
Trimethylbenzene, 1,3,5-	1 RAGS-E	NA	5.000E-02 NCEA	1.700E-03 NCEA	5.000E-02 extrapolated	-None Specified
Trinitrobenzene, 1,3,5-	1 RAGS-E	NA	3.000E-02 IRIS Medium	3.000E-02 extrapolated	3.000E-02 extrapolated	-Blood -Spleen
Trinitrophenylmethylnitramine	1 RAGS-E	NA	1.000E-02 HEAST	1.000E-02 extrapolated	1.000E-02 extrapolated	-Kidney -Liver -Spleen
Trinitrotoluene, 2,4,6-	1 RAGS-E	NA	5.000E-04 IRIS Medium	5.000E-04 extrapolated	5.000E-04 extrapolated	-Liver
TRPH	5 ATSDR	2.000E-01 TPHCWG	4.000E-02 TPHCWG	5.714E-02 extrapolated*	2.000E-01 extrapolated	-Multiple Endpoints Mixed Contaminants
Uranium, soluble salts	0.002 ATSDR	NA	3.000E-03 IRIS	6.000E-06 extrapolated	6.000E-06 extrapolated	-Kidney
Vanadium	0.026 RAGS-E	NA	7.000E-03 HEAST	1.820E-04 extrapolated	1.820E-04 extrapolated	-Hair Loss
Vernam	1 RAGS-E	NA	1.000E-03 IRIS Low	1.000E-03 extrapolated	1.000E-03 extrapolated	-Body Weight

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Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
Vinyl acetate	1 RAGS-E	2.000E-01 IRIS High	1.000E+00 HEAST	5.714E-02 extrapolated*	1.000E+00 extrapolated	-Kidney -Nasal
Vinyl chloride	0.875 ATSDR	1.000E-01 IRIS Medium	3.000E-03 IRIS Medium	2.857E-02 extrapolated*	2.625E-03 extrapolated	-Liver
White phosphorus	1 RAGS-E	NA	2.000E-05 IRIS Low	2.000E-05 extrapolated	2.000E-05 extrapolated	-Maternal Death -Reproductive
Xylenes, total	0.895 ATSDR	1.000E-01 IRIS Medium	2.000E-01 IRIS Medium	2.857E-02 extrapolated*	1.790E-01 extrapolated	-Neurological
Zinc	0.25 ATSDR	NA	3.000E-01 IRIS Medium	7.500E-02 extrapolated	7.500E-02 extrapolated	-Blood
Zinc chloride		NA	3.000E-01 extrapolated	NA	NA	-Blood
Zinc phosphide	1 RAGS-E	NA	3.000E-04 IRIS Low	3.000E-04 extrapolated	3.000E-04 extrapolated	-Body Weight
Zineb	1 RAGS-E	NA	5.000E-02 IRIS Medium	5.000E-02 extrapolated	5.000E-02 extrapolated	-Thyroid

SW

Table 5b - Technical Report
Sources and Derivation of Toxicity Values Used in Calculations for Non-Carcinogens

Contaminants	GI Absorption	RfC (mg/m ³)	RfDo (mg/kg-day)	RfDi (mg/kg-day)	RfDd (mg/kg-day)	Default Non-Cancer Target Organs/Systems or Effects†
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† = These default Target Organ(s)/Systems or Effects are those reported to occur at the doses used to derive the reference dose. Non-default Target Organ(s)/Systems or Effects may be justified through a detailed toxicological analysis of the chemicals present at a specific site.

Note: Although reference doses are reported for all contaminants for which they are available, some contaminants have both carcinogenic and non-carcinogenic health effects. In those cases CTLs are generated for both endpoints and the lower of the two CTLs is provided

NA = Toxicity value not available and route-to-route extrapolation is not appropriate
 extrapolated = Extrapolated from a reference dose for another route of administration
 extrapolated* = Extrapolated from an inhalation reference concentration

"Low", "Medium", and "High" are taken from IRIS and are qualitative descriptors of the USEPA's confidence in the reference doses contained in IRIS.
 Reference sources for toxicity data:

- IRIS: USEPA's Integrated Risk Information System
- HEAST: USEPA's 1997 Health Effects Assessment Summary Tables
- NCEA: USEPA's National Center for Environmental Assessment
- HAL: USEPA's 2002 Edition of the Drinking Water Standards and Health Advisories
- NAS: Oral RfD for iron equal to upper intake limit developed by the National Academy of Sciences in its report 'Dietary Reference Intakes for Vitamin A, Vitamin K, Arsenic, Boron, Chromium, Copper, Iodine, Iron, Manganese, Molybdenum, Nickel, Silicon, Vanadium, and Zinc' 2001
- OPP: USEPA's Office of Pesticide Programs Reference Dose Tracking Report
- HEAST-WD: Value withdrawn from Health Effects Assessment Summary Tables
- Surrogate (a): Surrogate RfD based on other non-carcinogenic PAH (pyrene)
- Surrogate (b): Surrogate RfD based on oral RfD for 2-chlorophenol
- Surrogate (c): Surrogate RfD based on oral RfD for 2,4-dichlorophenol
- Surrogate (d): Surrogate RfD based on oral RfD for HCH-gamma (lindane)
- Surrogate (e): Surrogate RfD based on other non-carcinogenic PAH (methylnaphthalene, 2-)
- Surrogate (f): Surrogate RfC based on RfC for nitroaniline, o-
- Surrogate (g): Surrogate RfD based on oral RfD for 1,2,4-trichlorobenzene
- Surrogate (h): Surrogate RfD based on oral RfD for 1,2,4-trimethylbenzene

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Table 6 - Technical Report
Chemicals Sorted by Default Target Organ†

Adrenals

CFC 113 [see Trichloro-1,2,2-trifluoroethane, 1,1,2-]
Chlorodifluoromethane
Cumene [or Isopropyl benzene]
Dicofol [or Kelthane]
Glycidaldehyde
Nitrobenzene
Oryzalin
Trichlorobenzene, 1,2,3-
Trichlorobenzene, 1,2,4-

Blood

Alachlor
Aniline
Antimony
Baygon [or Propoxur]
Bayleton
Bentazon
Benzene
Bis(2-chloroisopropyl)ether [or Bis(2-chloro-1-methylethyl)ether]
Chlorobutane, 1-
Dichloroethene, 1,2- (mixture)
Dichloroethene, cis-1,2-
Dichloroethene, trans-1,2-
Dichlorophenoxy acetic acid, 2,4-
Dichlorophenoxy butyric acid, 2,4- [or DB, 2,4-]
Dimethylaniline, 2,4-
Dimethylphenol, 2,4-
Dinitrotoluene, 2,6-
Diuron
Ethylene diamine
Famphur
Fluoranthene
Fluorene
Glycidaldehyde

Table 6 - Technical Report
Chemicals Sorted by Default Target Organ†

Hydroquinone
Iprodione
Linuron
Metalaxyl
Methyl parathion [or Parathion, methyl]
Methylene bromide
Nitrate
Nitrate+Nitrite
Nitrite
Nitroaniline, m-
Nitroaniline, o-
Nitroaniline, p-
Nitrobenzene
Octahydro-1,3,5,7-tetranitro-tetrazocine [or HMX]
Oryzalin
Pebulate
Propylene glycol
Simazine
Styrene
Terbutryn
Trifluralin
Trinitrobenzene, 1,3,5-
Zinc
Zinc chloride

Body Weight

Ally [or Metsulfuron, methyl]
Aluminum
Aluminum phosphide
Ammonium sulfamate
Bis(2-ethylhexyl)adipate
Bisphenol A
Bromacil
Captan
Carboxin
Chlorobenzilate
Chloro-m-cresol, p- [or Chloro-3-methylphenol, 4-]
Chlorotoluene, o-

Table 6 - Technical Report
Chemicals Sorted by Default Target Organ†

Chlorsulfuron
DEET
Dichlorobenzene, 1,2-
Diethyl phthalate
Ethyl acetate
Ethyl ether
Ethyltoluene, o-
Ethyltoluene, p-
Formic acid
Hexazinone
Metolachlor
Napropamide
Nickel
Oxamyl
Phosphine
Propazine
Propylene glycol monoethyl ether
Tebuthiuron
Vernam
Zinc phosphide

Bone Marrow

Chlorpropham
Prometryn
Propylene glycol
Tetraethyl dithiopyrophosphate

Carcinogen

Acephate
Acrylamide
Acrylonitrile
Alachlor
Aldrin
Aniline
Aramite
Arsenic
Atrazine
Azobenzene
Benzene

Table 6 - Technical Report
Chemicals Sorted by Default Target Organ†

Benzidine
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(k)fluoranthene
Benzotrichloride
Benzyl chloride
Beryllium
Beta radiation
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl)ether [or Bis(2-chloro-1-methyl)ether]
Bis(2-ethylhexyl)adipate
Bis(2-ethylhexyl)phthalate [or DEHP]
Bromate
Bromodichloromethane
Bromoform
Cadmium
Captan
Captan
Carbazole
Carbon tetrachloride
Chlordane (total)
Chlorobenzilate
Chloroform
Chloronitrobenzene, o-
Chloronitrobenzene, p-
Chlorothalonil [or Bravo]
Chromium (total)
Chrysene
Crotonaldehyde
Cyanazine
Diallate
Dibenz(a,h)anthracene
Dibromo-3-chloropropane, 1,2- [or DBCP, 1,2-]
Dibromochloromethane
Dibromoethane, 1,2- [or EDB]
Dichloroacetic acid
Dichlorobenzene, 1,4-

Table 6 - Technical Report
Chemicals Sorted by Default Target Organ†

Dichlorobenzidine, 3,3'-
Dichlorodiphenyldichloroethane, p,p'- [or DDD, 4,4'-]
Dichlorodiphenyldichloroethylene, p,p'- [or DDE, 4,4'-]
Dichlorodiphenyltrichloroethane, p,p'- [or DDT, 4,4'-]
Dichloroethane, 1,2- [or EDC]
Dichloropropane, 1,2-
Dichloropropene, 1,3-
Dichlorvos
Dicofol [or Kelthane]
Dieldrin
Diethylstilbestrol
Dimethoxybenzidine, 3,3'-
Dimethylaniline, 2,4-
Dimethylbenzidine, 3,3'-
Dinitrotoluene, 2,4-
Dinitrotoluene, 2,6-
Dioxane, 1,4-
Dioxins, as total 2,3,7,8-TCDD equivalents
Diphenylhydrazine, 1,2-
Epichlorohydrin
Ethyl acrylate
Ethyl chloride [or Chloroethane]
Ethylene oxide
Ethylene thiourea [or ETU]
Formaldehyde
Gross alpha radiation
Heptachlor
Heptachlor epoxide
Hexachloro-1,3-butadiene
Hexachlorobenzene
Hexachlorocyclohexane, alpha- [or BHC, alpha-]
Hexachlorocyclohexane, beta- [BHC, beta-]
Hexachlorocyclohexane, gamma- [or Lindane or BHC, gamma-]
Hexachlorocyclohexane, technical [or BHC, technical]
Hexachlorodibenzo-p-dioxin (mixture)
Hexachloroethane
Hexahydro-1,3,5-trinitro-1,3,5-triazine [or RDX]
Indeno(1,2,3-cd)pyrene

Table 6 - Technical Report
Chemicals Sorted by Default Target Organ†

Isophorone
Kepone
Methoxy-5-nitroaniline, 2-
Methyl chloride [or Chloromethane]
Methyl-5-nitroaniline, 2-
Methylaniline, 2-
Methylene bis(2-chloroaniline), 4,4-
Methylene chloride
Naphthylamine, 2-
Nickel subsulfide
Nitroaniline, m-
Nitroaniline, p-
Nitroglycerin
Nitroso-di-ethylamine, N-
Nitroso-dimethylamine, N-
Nitroso-di-n-butylamine, N-
Nitroso-di-n-propylamine, N-
Nitroso-diphenylamine, N-
Nitroso-N-methylethylamine, N-
Nitrosopyrrolidine, N-
PCBs [or Aroclor mixture]
Pentachloronitrobenzene
Pentachlorophenol
Phenylenediamine, o-
Phenylphenol, 2-
Propylene oxide
Quinoline
Radium, 226 and 228 (combined)
Simazine
Tetrachloroethane, 1,1,1,2-
Tetrachloroethane, 1,1,2,2-
Tetrachloroethene [or PCE]
Toluene-2,4-diamine
Toluidine, p-
Toxaphene
Trichloroethane, 1,1,2-
Trichloroethene [or TCE]
Trichlorophenol, 2,4,6-

Table 6 - Technical Report
Chemicals Sorted by Default Target Organ†

Trichloropropane, 1,2,3-
Trifluralin
Trimethyl phosphate
Trinitrotoluene, 2,4,6-
Vinyl chloride

Cardiovascular

Arsenic
Atrazine
Barium (soluble salts)
Chloroacetic acid
Cobalt
Dichlorophenoxy butyric acid, 2,4- [or DB, 2,4-]
Endosulfan (alpha+beta+sulfate)
Ethyl dipropylthiocarbamate, S- [or EPTC]
Ethylene diamine
Nitroglycerin
Trichlorofluoromethane

Developmental

Acrylic acid
Benomyl
Bidrin [or Dicrotophos]
Carbon disulfide
Chlorite (sodium salt) [or Sodium chlorite]
Cyhalothrin [or Karate]
Dicamba
Dinoseb
Ethanol
Ethoxyethanol acetate, 2-
Ethyl chloride [or Chloroethane]
Ethylbenzene
Methanol
Methoxychlor
Methyl ethyl ketone [or Butanone, 2-]
Phenol
Rotenone
Toxaphene

Table 6 - Technical Report
Chemicals Sorted by Default Target Organ†

Eye

Dacthal [or DCPA]
Demeton
Dinitro-o-cyclohexylphenol
Dinitrophenol, 2,4-
Diquat
Methanol
Methyl tert-butyl ether [or MTBE]
Trichloropropene, 1,2,3-

Gastrointestinal

Benzaldehyde
Benzyl alcohol
Beryllium
Bromomethane [or Methyl bromide]
Chloral hydrate
Copper
Cymene, p- [or Isopropyl toluene, 4-]
Cypermethrin
Dichloropropene, 1,3-
Dimethylformamide, N,N-
Endothall
Formaldehyde
Hexachlorocyclopentadiene
Hydrogen sulfide
Iron
Propiconazole
Thiocyanomethylthio-benzothiazole, 2- [or TCMTB]

Hair Loss

Chloro-1,3-butadiene [or Chloroprene]
Selenious acid (as Selenium)
Selenium
Thallium
Vanadium

Immunological

Cobalt
Dichlorophenol, 2,3-

Table 6 - Technical Report
Chemicals Sorted by Default Target Organ†

Dichlorophenol, 2,4-
Dichlorophenol, 2,5-
Dichlorophenol, 2,6-
Dichlorophenol, 3,4-
Mercuric chloride (as Mercury)
PCBs [or Aroclor mixture]
Tributyltin oxide

Kidney

Acetone
Acifluorfen, sodium [or Blazer]
Allyl alcohol
Benzaldehyde
Biphenyl, 1,1- [or Diphenyl]
Bromate
Bromodichloromethane
Butyl alcohol, tert- [or Butanol, tert-]
Butylbenzene, n-
Butylbenzene, sec
Butylbenzene, tert
Cadmium
Captafol
Carbaryl [or Sevin]
Chlorobenzotrifluoride, 4-
Chlorodifluoromethane
Chlorothalonil [or Bravo]
Chlorpropham
Cumene [or Isopropyl benzene]
Dacthal [or DCPA]
Dalapon
Dichloroethane, 1,1-
Dichlorophenoxy acetic acid, 2,4-
Diethylene glycol, monoethyl ether
Dimethylphenol, 2,6-
Dimethylphenol, 3,4-
Dimethylphthalate
Dinitrotoluene, 2,6-
Di-n-octylphthalate

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Table 6 - Technical Report
Chemicals Sorted by Default Target Organ†

Diphenylamine, N,N-
Endosulfan (alpha+beta+sulfate)
Epichlorohydrin
Ethyl methacrylate
Ethylbenzene
Ethylene glycol
Ethylphthalyl ethylglycolate [or EPEG]
Fluoranthene
Fluoridone
Glycidaldehyde
Glyphosate [or Roundup]
Hexachloro-1,3-butadiene
Hexachlorocyclohexane, delta- [or BHC, delta-]
Hexachlorocyclohexane, gamma- [or Lindane or BHC, gamma-]
Hexachloroethane
Limonene
Maleic anhydride
Maleic hydrazide
Mercuric chloride (as Mercury)
Methomyl
Methyl isobutyl ketone [or MIBK]
Methyl styrene, alpha
Methyl tert-butyl ether [or MTBE]
Methyl-4-chlorophenoxy acetic acid, 2- [or MCPA]
Metribuzin
Nitrobenzene
Nonylphenol
Norflurazon
Oryzalin
Pentachlorobenzene
Pentachlorophenol
Phenanthrene
Phthalic anhydride
Prometryn
Propionic acid, 2-(2-methyl-4-chlorophenoxy) [or MCPP]
Propylene glycol monomethyl ether
Pyrene
Tetrachlorobenzene, 1,2,4,5-

Table 6 - Technical Report
Chemicals Sorted by Default Target Organ†

Tetrachloroethane, 1,1,1,2-
Thiobencarb
Tin
Toluene
Trichlorofluoromethane
Trichlorophenol, 2,4,5-
Trichlorophenoxy acetic acid, 2,4,5-
Trichloropropane, 1,1,2-
Trichloropropane, 1,2,3-
Trinitrophenylmethylnitramine
Uranium, soluble salts
Vinyl acetate

Liver

Acenaphthene
Acenaphthylene
Acetone
Aldrin
Allyl alcohol
Ametryn
Benzenethiol
Benzidine
Bioallethrin
Bis(2-ethylhexyl)phthalate [or DEHP]
Bromoform
Butyl benzyl phthalate
Butylate
Butylbenzene, n-
Carbaryl [or Sevin]
Carbon tetrachloride
Chloramben
Chlordane (total)
Chlorobenzene
Chloroform
Chloronaphthalene, beta-
Chloropropane, 2-
Chlorpropham
Dacthal [or DCPA]

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Table 6 - Technical Report
Chemicals Sorted by Default Target Organ†

Dibromochloromethane
Dichloroacetic acid
Dichlorobenzene, 1,4-
Dichlorodifluoromethane
Dichlorodiphenyltrichloroethane, p,p'- [or DDT, 4,4'-]
Dichloroethene, 1,1-
Dichloroethene, 1,2- (mixture)
Dichloroethene, trans-1,2-
Dichlorophenoxy acetic acid, 2,4-
Dieldrin
Dimethrin
Dimethylformamide, N,N-
Dimethylphenol, 2,6-
Dimethylphenol, 3,4-
Dinitrotoluene, 2,4-
Di-n-octylphthalate
Diphenamid
Diphenylamine, N,N-
Endrin
Ethylbenzene
Ethyltoluene, o-
Ethyltoluene, p-
Fluoranthene
Fonofos
Furfural
Heptachlor
Heptachlor epoxide
Hexachlorobenzene
Hexachlorocyclohexane, delta- [or BHC, delta-]
Hexachlorocyclohexane, gamma- [or Lindane or BHC, gamma-]
Limonene
Malonitrile
Metalaxyl
Methacrylonitrile
Methidathion
Methyl acetate
Methyl isobutyl ketone [or MIBK]
Methyl styrene, alpha

Table 6 - Technical Report
Chemicals Sorted by Default Target Organ†

Methyl tert-butyl ether [or MTBE]
Methyl-4-chlorophenoxy acetic acid; 2- [or MCPA]
Methylene bis(2-chloroaniline), 4,4-
Methylene chloride
Metribuzin
Mirex
Nitrobenzene
Norflurazon
Octahydro-1,3,5,7-tetranitro-tetrazocine [or HMX]
Oryzalin
Oxadiazon
Pendimethalin
Pentachlorobenzene
Pentachloronitrobenzene
Pentachlorophenol
Permethrin
Phenylenediamine, m-
Phosmet
Picloram
Prometryn
Propachlor
Propylene glycol monomethyl ether
Pyridine
Ronnel
Styrene
Terbacil
Tetrachloroethane, 1,1,1,2-
Tetrachloroethane, 1,1,2,2-
Tetrachloroethene [or PCE]
Tetrachlorophenol, 2,3,4,6-
Thallium
Tin
Toluene
Triallate
Trichloroethane, 1,1,2-
Trichlorophenol, 2,4,5-
Trichlorophenoxy propionic acid, 2, (2, 4, 5-) [or Silvex]
Trichloropropane, 1,1,2-

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Table 6 - Technical Report
Chemicals Sorted by Default Target Organ†

Trichloropropane, 1,2,3-
Trifluralin
Trinitrophenylmethylnitramine
Trinitrotoluene, 2,4,6-
Vinyl chloride

Mortality

Acetonitrile
Dibutyl phthalate
Strychnine

Nasal

Acrolein
Acrylonitrile
Chloro-1,3-butadiene [or Chloroprene]
Dichloropropane, 1,2-
Dichloropropene, 1,3-
Epichlorohydrin
Furfural
Hydrogen sulfide
Methyl methacrylate
Methyl styrene (mixed)
Methylnaphthalene, 1-
Methylnaphthalene, 2-
Naphthalene
Phthalic anhydride
Propylene oxide
Triethylamine
Vinyl acetate

Neurological

Acephate
Acetone
Acrylamide
Aldicarb [or Temik]
Aldicarb sulfone
Aldicarb sulfoxide
Allyl chloride
Baygon [or Propoxur]

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Table 6 - Technical Report
Chemicals Sorted by Default Target Organ†

Benzidine
Benzo(g,h,i)perylene
Bromoxynil octanoate
Butane
Butanol, n-
Butyl alcohol, tert- [or Butanol, tert-]
Butylbenzene, n-
Butylbenzene, sec
Butylbenzene, tert
Calcium cyanide
Carbofuran
Carbon disulfide
Carbophenothion [or Trithion]
Chloral hydrate
Chlorine cyanide [or Cyanogen chloride]
Chlorite (sodium salt) [or Sodium chlorite]
Chlorobutane, 1-
Chlorpyrifos
Cobalt
Coumaphos
Cyanide, free
Cyanogen
Cycloate
Cymene, p- [or Isopropyl toluene, 4-]
Demeton
Diazinon
Dichloroacetic acid
Dichlorvos
Dimethoate
Dimethylphenol, 2,4-
Dinitrotoluene, 2,4-
Dinitrotoluene, 2,6-
Disulfoton
Ethion
Ethoprop
Ethyl p-nitrophenyl phenylphosphorothioate [or EPN]
Fenamiphos
Fensulfothion

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Table 6 - Technical Report
Chemicals Sorted by Default Target Organ†

Fonofos
Guthion [or Methyl azinphos]
Hexachlorophene
Hexane, n-
Hydrogen cyanide (as Cyanide)
Isobutyl alcohol
Lead
Malathion
Manganese
Mercury
Merphos
Merphos oxide
Metalaxyl
Methamidophos
Methanol
Methyl chloride [or Chloromethane]
Methyl parathion [or Parathion, methyl]
Methylmercury [or Mercury, methyl]
Methylphenol, 2- [or Cresol, o-]
Methylphenol, 3- [or Cresol, m-]
Methylphenol, 4- [or Cresol, p-]
Mevinphos
Naled
Octamethylpyrophosphoramidate
Parathion
Phorate
Phosmet
Potassium cyanide
Propham
Propylene glycol monomethyl ether
Pydrin [or Fenvalerate]
Selenious acid (as Selenium)
Selenium
Sodium cyanide (as Cyanide)
Styrene
Terbufos
Tetraethyl dithiopyrophosphate
Thiram

Table 6 - Technical Report
Chemicals Sorted by Default Target Organ†

Toluene
Trichloro-1,2,2-trifluoroethane, 1,1,2- [or CFC 113]
Xylenes, total

None Specified

Acetophenone
Anilazine [or Dyrene]
Anthracene
Bensulide
Benzoic acid
Bromochloromethane
Bromoxynil
Butyl acetate, n-
Butylphthalyl butylglycolate
Chloride
Chloro-1,1-difluoroethane, 1-
Chlorobenzoic acid, p-
Chloropicrin
Chlorotoluene, p-
Diallate
Dibenzofuran
Dichloroacetonitrile
Dichlorobenzene, 1,3-
Dichlorobenzophenone, 4,4'-
Dichloroethane, 1,2- [or EDC]
Dichloroprop
Diisopropyl methylphosphonate
Fluometuron
Hexanone, 2- [or Methyl butyl ketone]
Isophorone
Lithium
Methyl acrylate
Nitrophenol, 4-
Phenmedipham [or Betanal]
Profluralin
Prometon
Pronamide
Propargite

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Table 6 - Technical Report
Chemicals Sorted by Default Target Organ†

Sodium
Sulfate
Temephos
Total dissolved solids [or TDS]
Trichloroacetic acid
Trichlorobenzene, 1,3,5-
Trichloroethane, 1,1,1- [or Methyl chloroform]
Trichloroethene [or TCE]
Trimethylbenzene, 1,2,3-
Trimethylbenzene, 1,2,4-
Trimethylbenzene, 1,3,5-

Reproductive

Acrylonitrile
Boron
Carbofuran
Chlorophenol, 2-
Chlorophenol, 3-
Chlorophenol, 4-
Chlorpyrifos, methyl
Cobalt
Cyclohexylamine
Dibromo-3-chloropropane, 1,2- [or DBCP, 1,2-]
Dibromoethane, 1,2- [or EDB]
Dichloroacetic acid
Ethoxyethanol, 2-
Fluoridone
Hexahydro-1,3,5-trinitro-1,3,5-triazine [or RDX]
Methoxychlor
Methoxyethanol, 2-
Molinate
Resmethrin
White phosphorus

Respiratory

Ammonia
Ammonia (as Total)
Beryllium
Boron

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Table 6 - Technical Report
Chemicals Sorted by Default Target Organ†

Bromomethane [or Methyl bromide]
Butane
Chlorine
Chloronaphthalene, beta-
Dacthal [or DCPA]
Methylphenol, 4- [or Cresol, p-]
Paraquat
Phthalic anhydride
Propylene oxide
Toluene diisocyanate, 2,4/2,6- mixture
Trichlorofluoromethane

Skin

Arsenic
Cymene, p- [or Isopropyl toluene, 4-]
Selenious acid (as Selenium)
Selenium
Silver

Spleen

Aniline
Chloroaniline, p-
Chlorpropham
Dimethylaniline, 2,4-
Dimethylaniline, N,N-
Dimethylphenol, 2,6-
Dimethylphenol, 3,4-
Dinitrobenzene, 1,2- (o)
Dinitrobenzene, 1,3- (m)
Dinitrobenzene, 1,4- (p)
Malonitrile
Methomyl
Nitrotoluene, m-
Nitrotoluene, o-
Nitrotoluene, p-
Propanil
Triallate
Trinitrobenzene, 1,3,5-
Trinitrophenylmethylnitramine

Table 6 - Technical Report
Chemicals Sorted by Default Target Organ†

Thyroid

Calcium cyanide
Chlorine cyanide [or Cyanogen chloride]
Cyanide, free
Cyanogen
Dacthal [or DCPA]
Ethylene thiourea [or ETU]
Hydrogen cyanide (as Cyanide)
Mancozeb
Maneb
Mirex
Norflurazon
Perchlorate
Potassium cyanide
Terbacil
Trichloropropane, 1,1,2-
Zineb

Other

Chlorodifluoromethane
Fluoride
Methylene bis(2-chloroaniline), 4,4-
Molybdenum
Phenylenediamine, p-
Phthalic acid, p-
Strontium
TRPH

† = These default Target Organ(s)/Systems or Effects are those reported to occur at the doses used to derive the reference dose. Non-default Target Organ(s)/Systems or Effects may be justified through a detailed toxicological analysis of the chemicals present at a specific site.

**Table 7 - Technical Report
Soil Saturation (C_{sat}) Limits for Chapter 24-44(2) of the Code of Miami-Dade County**

Contaminant	CAS #	C_{sat} (mg/kg)
Acetone	67-64-1	100000
Acetonitrile	75-05-8	100000
Acetophenone	98-86-2	2100
Acrolein	107-02-8	23000
Acrylic acid	79-10-7	110000
Acrylonitrile	107-13-1	8200
Allyl alcohol	107-18-6	110000
Allyl chloride	107-05-1	1500
Ammonia	7664-41-7	N/A
Ammonia (as Total)		N/A
Aniline	62-53-3	5500
Benzaldehyde	100-52-7	1600
Benzene	71-43-2	870
Benzenethiol	108-98-5	1300
Benzotrichloride	98-07-7	730
Benzyl alcohol	100-51-6	7000
Benzyl chloride	100-44-7	620
Bidrin [or Dicrotophos]	141-66-2	540000
Bis(2-chloroethyl)ether	111-44-4	3300
Bis(2-chloroisopropyl)ether [or Bis(2-chloro-1-methylethyl)ether]	39638-32-9	2800
Bis(2-ethylhexyl)adipate	103-23-1	230
Bis(2-ethylhexyl)phthalate [or DEHP]	117-81-7	31000
Bromochloromethane	74-97-5	7300
Bromodichloromethane	75-27-4	3000
Bromoform	75-25-2	1900
Bromomethane [or Methyl bromide]	74-83-9	3200
Butane	106-97-8	N/A
Butanol, n-	71-36-3	11000
Butyl acetate, n-	123-86-4	1900
Butyl benzyl phthalate	85-68-7	890
Butylate	2008-41-5	75
Butylbenzene, n-	104-51-8	130

N/A- C_{sat} only applicable for compounds liquid at ambient temperature (melting points > 25°C)

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**Table 7 - Technical Report
Soil Saturation (Csat) Limits for Chapter 24-44(2) of the Code of Miami-Dade County**

Contaminant	CAS #	Csat (mg/kg)
Butylbenzene, sec	135-98-8	170
Butylbenzene, tert	98-06-6	220
Butylphthalyl butylglycolate	85-70-1	11000
Carbon disulfide	75-15-0	730
Carbon tetrachloride	56-23-5	1100
Carbophenothion [or Trithion]	786-19-6	80
Chlorine	7782-50-5	1300
Chlorine cyanide [or Cyanogen chloride]	506-77-4	2500000
Chloro-1,1-difluoroethane, 1-	75-68-3	3500
Chloro-1,3-butadiene [or Chloroprene]	126-99-8	1800
Chlorobenzene	108-90-7	680
Chlorobenzotrifluoride, 4-	98-56-6	270
Chlorobutane, 1-	109-69-3	540
Chlorodifluoromethane	75-45-6	1500
Chloroform	67-66-3	2900
Chlorophenol, 2-	95-57-8	53000
Chloropropane, 2-	75-29-6	1700
Chlorotoluene, o-	95-49-8	920
Chlorotoluene, p-	106-43-4	230
Crotonaldehyde	123-73-9	21000
Cumene [or Isopropyl benzene]	98-82-8	1800
Cyanogen	460-19-5	250000
Cycloate	1134-23-2	180
Cyclohexanone	108-94-1	700
Cyhalothrin [or Karate]	68085-85-8	3.8
Cymene, p- [or Isopropyl toluene, 4-]	99-87-6	190
Dibromo-3-chloropropane, 1,2- [or DBCP, 1,2-]	96-12-8	750
Dibromochloromethane	124-48-1	1300
Dibromoethane, 1,2- [or EDB]	106-93-4	1500
Dibutyl phthalate	84-74-2	110
Dichloroacetic acid	79-43-6	550000
Dichlorobenzene, 1,2-	95-50-1	590
Dichlorobenzene, 1,3-	541-73-1	600

N/A- Csat only applicable for compounds liquid at ambient temperature (melting points > 25°C)

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**Table 7 - Technical Report
Soil Saturation (Csat) Limits for Chapter 24-44(2) of the Code of Miami-Dade County**

Contaminant	CAS #	Csat (mg/kg)
Dichlorodifluoromethane	75-71-8	880
Dichloroethane, 1,1-	75-34-3	1700
Dichloroethane, 1,2- [or EDC]	107-06-2	1800
Dichloroethene, 1,1-	75-35-4	1500
Dichloroethene, cis-1,2-	156-59-2	1200
Dichloroethene, trans-1,2-	156-60-5	3100
Dichloropropane, 1,2-	78-87-5	1100
Dichloropropene, 1,3-	542-75-6	1400
Dichlorvos	62-73-7	2100
Diethyl phthalate	84-66-2	2000
Diethylene glycol, monoethyl ether	111-90-0	170000
Diisopropyl methylphosphonate	1445-75-6	3100
Dimethrin	70-38-2	6.5
Dimethylaniline, 2,4-	95-68-1	1800
Dimethylaniline, N,N-	121-69-7	820
Dimethylformamide, N,N-	68-12-2	140000
Dimethylphenol, 2,4-	105-67-9	11000
Dimethylphthalate	131-11-3	1200
Dioxane, 1,4-	123-91-1	100000
Disulfoton	298-04-4	780
Epichlorohydrin	106-89-8	55000
Ethanol	64-17-5	110000
Ethion	563-12-2	44
Ethoprop	13194-48-4	500
Ethoxyethanol acetate, 2-	111-15-9	30000
Ethoxyethanol, 2-	110-80-5	200000
Ethyl acetate	141-78-6	10000
Ethyl acrylate	140-88-5	3500
Ethyl chloride [or Chloroethane]	75-00-3	1500
Ethyl dipropylthiocarbamate, S- [or EPTC]	759-94-4	3300
Ethyl ether	60-29-7	22000
Ethyl methacrylate	97-63-2	1200
Ethylbenzene	100-41-4	400

N/A- Csat only applicable for compounds liquid at ambient temperature (melting points > 25°C)

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**Table 7 - Technical Report
Soil Saturation (Csat) Limits for Chapter 24-44(2) of the Code of Miami-Dade County**

Contaminant	CAS #	Csat (mg/kg)
Ethylene diamine	107-15-3	100000
Ethylene glycol	107-21-1	100000
Ethylene oxide	75-21-8	200000
Ethylphthalyl ethylglycolate [or EPEG]	84-72-0	1700
Ethyltoluene, o-	622-96-8	390
Ethyltoluene, p-	611-14-3	380
Fluoride	7782-41-4	N/A
Fonofos	944-22-9	54
Formaldehyde	50-00-0	58000
Furfural	98-01-1	13000
Glycidaldehyde	765-34-4	100000
Hexachloro-1,3-butadiene	87-68-3	1100
Hexachlorocyclopentadiene	77-47-4	2200
Hexane, n-	110-54-3	640
Hexanone, 2- [or Methyl butyl ketone]	591-78-6	4200
Isobutyl alcohol	78-83-1	11000
Isophorone	78-59-1	4600
Limonene	138-86-3	110
Malathion	121-75-5	570
Mercury	7439-97-6	2.9
Merphos oxide	78-48-8	0.6
Methacrylonitrile	126-98-7	3100
Methanol	67-56-1	100000
Methyl acetate	79-20-9	69000
Methyl acrylate	96-33-3	9400
Methyl chloride [or Chloromethane]	74-87-3	1100
Methyl ethyl ketone [or Butanone, 2-]	78-93-3	25000
Methyl isobutyl ketone [or MIBK]	108-10-1	3600
Methyl methacrylate	80-62-6	3600
Methyl styrene (mixed)	25013-15-4	210
Methyl styrene, alpha	98-83-9	1600
Methyl tert-butyl ether [or MTBE]	1634-04-4	8800
Methylaniline, 2-	95-53-4	7600

N/A- Csat only applicable for compounds liquid at ambient temperature (melting points > 25°C)

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**Table 7 - Technical Report
Soil Saturation (C_{sat}) Limits for Chapter 24-44(2) of the Code of Miami-Dade County**

Contaminant	CAS #	C_{sat} (mg/kg)
Methylene bromide	74-95-3	2900
Methylene chloride	75-09-2	2400
Methylnaphthalene, 1-	90-12-0	410
Methylphenol, 3- [or Cresol, m-]	108-39-4	14000
Metolachlor	51218-45-2	610
Mevinphos	7786-34-7	240000
Molinate	2212-67-1	740
Nitrobenzene	98-95-3	1000
Nitroglycerin	55-63-0	2100
Nitroso-di-ethylamine, N-	55-18-5	11000
Nitroso-dimethylamine, N-	62-75-9	100000
Nitroso-di-n-butylamine, N-	924-16-3	1900
Nitroso-di-n-propylamine, N-	621-64-7	8900
Nitroso-N-methylethylamine, N-	10595-95-6	2100
Nitrotoluene, m-	99-08-1	480
Nitrotoluene, o-	88-72-2	930
Octamethylpyrophosphoramidate	152-16-9	100000
Parathion	56-38-2	240
Pebulate	1114-71-2	190
Phorate	298-02-2	1700
Propylbenzene, n-	103-65-1	310
Propylene glycol	57-55-6	100000
Propylene glycol monomethyl ether	107-98-2	100000
Propylene oxide	75-56-9	80000
Pyridine	110-86-1	130000
Quinoline	91-22-5	68000
Styrene	100-42-5	1500
Terbufos	13071-79-9	220
Tetrachloroethane, 1,1,1,2-	630-20-6	1100
Tetrachloroethane, 1,1,2,2-	79-34-5	2000
Tetrachloroethene [or PCE]	127-18-4	230
Thiobencarb	28249-77-6	170
Toluene	108-88-3	650

N/A- C_{sat} only applicable for compounds liquid at ambient temperature (melting points > 25°C)

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**Table 7 - Technical Report
Soil Saturation (Csat) Limits for Chapter 24-44(2) of the Code of Miami-Dade County**

Contaminant	CAS #	Csat (mg/kg)
Toluene diisocyanate, 2,4/2,6- mixture	26471-62-5	2000
Tributyltin oxide	56-35-9	4900
Trichloro-1,2,2-trifluoroethane, 1,1,2- [or CFC 113]	76-13-1	1000
Trichlorobenzene, 1,2,4-	120-82-1	370
Trichloroethane, 1,1,1- [or Methyl chloroform]	71-55-6	1200
Trichloroethane, 1,1,2-	79-00-5	1800
Trichloroethene [or TCE]	79-01-6	1300
Trichlorofluoromethane	75-69-4	1700
Trichloropropane, 1,1,2-	598-77-6	1000
Trichloropropane, 1,2,3-	96-18-4	940
Trichloropropene, 1,2,3-	96-19-5	340
Trimethyl phosphate	512-56-1	69000
Trimethylbenzene, 1,2,3-	526-73-8	250
Trimethylbenzene, 1,2,4-	95-63-6	250
Trimethylbenzene, 1,3,5-	108-67-8	130
Vernam	1929-77-7	170
Vinyl acetate	108-05-4	2700
Vinyl chloride	75-01-4	1200
Xylenes, total	1330-20-7	140

N/A- Csat only applicable for compounds liquid at ambient temperature (melting points > 25°C)

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