



**TABLE 4. TOXICOLOGICAL AND CHEMICAL-PHYSICAL DATA  
FOR PART 201 GENERIC CLEANUP CRITERIA AND SCREENING LEVELS;  
PART 213 TIER 1 RISK-BASED SCREENING LEVELS (RBSLs)**

Developed pursuant to R 299.5752 of the Administrative Rules for Part 201 Environmental Remediation of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

Scientific notation is represented by E+ or E- a value, for example  $2 \times 10^6$  is reported as 2.0E+6.

Units are as indicated in each column heading.

Hazardous Substance	Chemical Abstract Service Number (CAS#)	Oral Reference Dose (RfD)	Oral Slope Factor (SF)	Chronic Inhalation Reference Concentration (RfC)	Inhalation Unit Risk Factor (IURF)	Occupational Short Term Exposure Level (STEL)	Relative Source Contribution for Drinking Water (RSC)	Ingestion Absorption Efficiency (AEi)	Dermal Absorption Efficiency (AE <sub>d</sub> )	Relative Source Contribution for Soil (RSC)	Log Octanol-Water Partition Coefficient (Log K <sub>ow</sub> )	Soil Organic Carbon-Water Partition Coefficients for Organic Compounds (K <sub>oc</sub> )
		mg/Kg-day	(mg/Kg-day) <sup>-1</sup>	ug/m <sup>3</sup>	(ug/m <sup>3</sup> ) <sup>-1</sup>	ug/m <sup>3</sup>	unitless	unitless	unitless	unitless	unitless	L/Kg
Dissolved oxygen (DO)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NR
Total dissolved solids (TDS)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NR
Acenaphthene	83329	1.8E-1	NA	2.1E+2	NA	NA	0.2	1.0	0.1	1.0	3.92	7,140
Acenaphthylene	208968	7.1E-3	NA	3.5E+1	NA	NA	0.2	1.0	0.1	1.0	3.6	3,460
Acetaldehyde (l)	75070	1.3E-1	NA	9.0E+0	2.2E-6	4.5E+4	0.2	1.0	0.1	1.0	-0.367	0.613
Acetate	71501	5.70E-01	NA	NA	NA	NA	0.2	NA	NA	NA	NA	NA
Acetic acid	64197	5.7E-1	NA	2.5E+2	NA	3.7E+4	0.2	1.0	0.1	1.0	-0.23	0.595
Acetone (l)	67641	1.0E-1	NA	5.9E+3	NA	1.7E+06	0.2	1.0	0.1	1.0	-0.240	0.581
Acetonitrile	75058	1.9E-2	NA	6.0E+1	NA	1.01E+5	0.2	1.0	0.1	1.0	-0.337	0.648
Acetophenone	98862	2.1E-1	NA	4.9E+2	NA	NA	0.2	1.0	0.1	1.0	1.6	37.4
Acrolein (l)	107028	1.6E-2	NA	2.0E-2	NA	6.9E+2	0.2	1.0	0.1	1.0	-0.01	1.18
Acrylamide	79061	2.0E-4	2.8E+0	NA	1.3E-3	NA	0.2	1.0	0.1	1.0	-0.96	0.114
Acrylic acid	79107	5.3E-1	NA	1.0E+0	NA	NA	0.2	1.0	0.1	1.0	0.35	2.21
Acrylonitrile (l)	107131	NA	3.3E-1	2.0E+0	6.8E-5	NA	0.2	1.0	0.1	1.0	0.255	1.78
Alachlor	15972608	1.0E-2	9.6E-2	NA	NA	NA	0.2	0.5	0.1	1.0	3.52	734
Aldicarb	116063	1.0E-3	NA	NA	NA	NA	0.2	1.0	0.1	1.0	1.1	12.1
Aldicarb sulfoxide	1646873	1.3E-3	NA	NA	NA	NA	0.2	1.0	0.1	1.0	-0.67	0.22
Aldicarb sulfone	1646884	1.1E-3	NA	NA	NA	NA	0.2	1.0	0.1	1.0	-0.57	0.275
Aldrin	309002	2.5E-5	8.7E+0	NA	4.9E-3	NA	0.2	0.5	0.1	1.0	6.5	2.45E+6
Aluminum (B)	7429905	3.3E-1	NA	NA	NA	NA	0.2	0.5	0.01	1.0	NR	NR
Ammonia	7664417	NA	NA	1.0E+2	NA	2.4E+4	0.2	1.0	0.1	1.0	NA	NA
t-Amyl methyl ether (TAME)	994058	1.3E-1	NA	6.2E+1	NA	NA	0.2	1.0	0.1	1.0	1.73	28.1
Aniline	62533	NA	1.6E-2	1.0E+0	NA	NA	0.2	1.0	0.1	1.0	0.978	9.15
Anthracene	120127	1.0E+0	NA	1.0E+3	NA	NA	0.2	1.0	0.1	1.0	4.55	29,700
Antimony	7440360	3.5E-4	NA	2.0E-1	NA	NA	0.2	0.5	0.01	1.0	NR	NR
Arsenic	7440382	2.7E-4	1.5E+0	NA	4.3E-3	NA	0.2	0.5	0.03	1.0	NR	NR
Asbestos (BB)	1332214	NA	NA	NA	0.046	NA	1.0	1.0	0	1.0	NR	NR
Atrazine	1912249	3.5E-2	7.4E-2	NA	NA	NA	0.2	1.0	0.1	1.0	2.7	451
Azobenzene	103333	NA	3.7E-2	NA	3.1E-5	NA	0.2	1.0	0.1	1.0	3.82	5,690



**TABLE 4. TOXICOLOGICAL AND CHEMICAL-PHYSICAL DATA FOR PART 201 GENERIC CLEANUP CRITERIA AND SCREENING LEVELS; PART 213 TIER 1 RISK-BASED SCREENING LEVELS (RBSLs)**

The dataset for each hazardous substance requires 22 columns. Review all 22 columns across 2 pages when evaluating data for a specific hazardous substance.

Hazardous Substance	Soil K <sub>oc</sub> for Ionizing Organic Compounds at pH=6.8	Soil-Water Distribution Coefficients for Inorganic Compounds at pH=6.8 (K <sub>d</sub> )	Henry's Law Constant at 25°C (HLC)	Air Diffusivity (D <sub>i</sub> or D <sub>a</sub> or D <sup>air</sup> )	Water Diffusivity (D <sub>w</sub> )	Lower Explosive Limit in Air (LEL)	Flash Point (FP)	Water Solubility (S)	Physical State at Standard Temperature & Pressure	Molecular Weight (MW)
	L/Kg	L/Kg	atm·m <sup>3</sup> /mol	cm <sup>2</sup> /s	cm <sup>2</sup> /s	unitless	°F	ug/L		g/mol
Dissolved oxygen (DO)	NR	NA	NR	NA	NA	NA	NA	NA	NA	NA
pH	NR	NA	NR	NA	NA	NA	NA	NA	NA	NA
Total dissolved solids (TDS)	NR	NA	NR	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	NR	NR	1.55E-4	0.0421	7.69E-6	NA	NA	4,240	Solid	154.2
Acenaphthylene	NR	NR	1.48E-3	0.08	8.0E-6	NA	NA	3,930	Solid	152.271
Acetaldehyde (l)	NR	NR	7.95E-5	0.08	8.0E-6	0.04	-36	1.0E+9	Liquid	44.1
Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetic acid	NR	NR	1.00E-7	0.08	8.0E-6	0.04	103	6.0E+9	Liquid	60.05
Acetone (l)	NR	NR	3.88E-5	0.124	1.14E-5	0.025	0.0	1.0E+9	Liquid	58.08
Acetonitrile	NR	NR	2.40E-5	0.13	1.7E-5	0.03	42	2.00E+8	Liquid	41.05
Acetophenone	NR	NR	1.1E-5	0.08	8.0E-6	NA	NA	6.1E+6	Liquid	120.2
Acrolein (l)	NR	NR	9.40E-5	0.11	1.2E-5	0.028	-15	2.10E+8	Liquid	56.06
Acrylamide	NR	NR	3.22E-10	0.097	1.1E-4	NA	280	2.20E+9	Solid	71.08
Acrylic acid	NR	NR	3.20E-7	0.08	8.0E-6	0.024	121	1.0E+9	Liquid	72.06
Acrylonitrile (l)	NR	NR	1.00E-4	0.12	1.3E-5	0.03	30	7.50E+7	Liquid	53.06
Alachlor	NR	NR	8.32E-9	0.08	8.0E-6	NA	NA	1.83E+5	Solid	269.77
Aldicarb	NR	NR	4.17E-9	0.08	8.0E-6	NA	NA	6.00E+6	Solid	190.25
Aldicarb sulfoxide	NR	NR	9.69E-10	0.08	8.0E-6	NA	NA	2.80E+7	Solid	206.27
Aldicarb sulfone	NR	NR	3.37E-9	0.08	8.0E-6	NA	NA	7.80E+6	Solid	222.27
Aldrin	NR	NR	1.70E-4	0.0132	4.86E-6	NA	NA	180	Solid	364.9
Aluminum (B)	NR	NA	NR	NR	NR	NA	NA	NA	Inorganic	26.982
Ammonia	NR	NR	3.20E-4	0.08	8.0E-6	0.15	NA	5.30E+8	Liquid	17.04
t-Amyl methyl ether (TAME)	NR	NR	2.68E-3	0.08	8.0E-6	NA	NA	2.64E+6	Liquid	102.18
Aniline	NR	NR	2.30E-6	0.07	8.3E-6	0.013	158	3.60E+7	Liquid	93.13
Anthracene	NR	NR	6.50E-5	0.0324	7.74E-6	NA	NA	43.4	Solid	178.24
Antimony	NR	45	NR	NR	NR	NA	NA	NA	Inorganic	121.760
Arsenic	NR	29	NR	NR	NR	NA	NA	NA	Inorganic	74.922
Asbestos (BB)	NR	NA	NR	NR	NR	NR	NR	NA	Inorganic	NA
Atrazine	NR	NR	2.63E-9	0.08	8.0E-6	NA	NA	70,000	Solid	215.72
Azobenzene	NR	NR	1.35E-5	0.08	8.0E-6	NA	NA	6,400	Solid	182.23



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Hazardous Substance	Chemical Abstract Service Number (CAS#)	Oral Reference Dose (RfD)	Oral Slope Factor (SF)	Chronic Inhalation Reference Concentration (RfC)	Inhalation Unit Risk Factor (IURF)	Occupational Short Term Exposure Level (STEL)	Relative Source Contribution for Drinking Water (RSC)	Ingestion Absorption Efficiency (AEI)	Dermal Absorption Efficiency (AE <sub>d</sub> )	Relative Source Contribution for Soil (RSC)	Log Octanol-Water Partition Coefficient (Log K <sub>ow</sub> )	Soil Organic Carbon-Water Partition Coefficients for Organic Compounds (K <sub>oc</sub> )
		mg/Kg-day	(mg/Kg-day) <sup>-1</sup>	ug/m <sup>3</sup>	(ug/m <sup>3</sup> ) <sup>-1</sup>	ug/m <sup>3</sup>	unitless	unitless	unitless	unitless	unitless	L/Kg
Barium (B)	7440393	7.0E-2	NA	5.0E+0	NA	NA	1.0	0.5	0.01	1.0	NR	NR
Benzene (l)	71432	NA	2.9E-2	NA	8.3E-6	8.0E+3	0.2	1.0	0.1	1.0	2.13	58.2
Benzidine	92875	2.7E-3	2.3E+2	NA	6.7E-2	NA	0.2	1.0	0.1	1.0	1.66	42.9
Benzo(a)anthracene (Q)	56553	NA	4.1E-1	NA	NA	NA	0.2	0.5	0.13	1.0	5.7	4.01E+5
Benzo(b)fluoranthene (Q)	205992	NA	4.1E-1	NA	NA	NA	0.2	0.5	0.13	1.0	6.2	1.24E+6
Benzo(k)fluoranthene (Q)	207089	NA	4.1E-2	NA	NA	NA	0.2	0.5	0.13	1.0	6.2	1.24E+6
Benzo(g,h,i)perylene	191242	7.1E-3	NA	1.2E+1	NA	NA	0.2	0.5	0.13	1.0	6.7	3.86E+6
Benzo(a)pyrene (Q)	50328	NA	4.1E+0	NA	2.1E-3	NA	0.2	0.5	0.13	1.0	6.11	1.01E+6
Benzoic acid	65850	4.4E+0	NA	NA	NA	NA	0.2	1.0	0.1	1.0	1.86	0.6
Benzyl alcohol	100516	1.4E+0	NA	5.0E+3	NA	NA	0.2	1.0	0.1	1.0	1.11	12.3
Benzyl chloride	100447	NA	1.1E-1	NA	5.0E-5	NA	0.2	1.0	0.1	1.0	2.30	182
Beryllium	7440417	1.5E-3	NA	2.0E-2	2.4E-3	1.0E+1	0.2	1.0	0	1.0	NR	NR
bis(2-Chloroethoxy)ethane	112265	NA	NA	NA	NA	NA	0.2	1.0	0.1	1.0	1.28	18.1
bis(2-Chloroethyl)ether (l)	111444	NA	4.2E-1	NA	3.3E-4	5.8E+4	0.2	1.0	0.1	1.0	1.21	10.9
bis(2-Ethylhexyl)phthalate	117817	1.9E-2	3.2E-3	NA	4.43E-6	1.0E+4	0.2	0.5	0.1	1.0	7.3	1.50E+7
Boron (B)	7440428	3.2E-1	NA	NA	NA	NA	0.2	0.5	0.01	1.0	NR	NR
Bromate	15541454	4.0E-3	7.0E-1	NA	NA	NA	0.2	0.5	0.01	1.0	0.63	NR
Bromobenzene (l)	108861	2.4E-3	NA	8.0E+0	NA	NA	0.2	1.0	0.1	1.0	2.99	870
Bromodichloromethane	75274	1.8E-2	5.0E-2	NA	3.7E-5	NA	0.2	1.0	0.1	1.0	2.1	55.1
Bromoform	75252	1.8E-2	6.4E-3	NA	1.1E-6	NA	0.2	1.0	0.1	1.0	2.35	87.0
Bromomethane	74839	1.4E-3	NA	5.0E+0	NA	NA	0.2	1.0	0.1	1.0	1.18	14.5
n-Butanol (l)	71363	1.3E-1	NA	3.5E+2	NA	1.52E+5	0.2	1.0	0.1	1.0	0.851	5.65
2-Butanone (MEK) (l)	78933	1.8E+0	NA	1.0E+3	NA	8.85E+5	0.2	1.0	0.1	1.0	0.279	1.99
n-Butyl acetate	123864	7.6E-2	NA	7.1E+3	NA	9.5E+5	0.2	1.0	0.1	1.0	1.78	30.8
t-Butyl alcohol	75650	5.4E-1	NA	1.89E+3	NA	NA	0.2	1.0	0.1	1.0	0.35	2.27
Butyl benzyl phthalate	85687	1.6E-1	NA	7.0E+2	NA	NA	0.2	1.0	0.1	1.0	4.84	57,300
n-Butylbenzene	104518	1.1E-2	NA	NA	NA	NA	0.2	1.0	0.1	1.0	4.38	20,200
sec-Butylbenzene	135988	1.1E-2	NA	NA	NA	NA	0.2	1.0	0.1	1.0	4.57	31,100
tert-Butylbenzene (l)	98066	1.1E-2	NA	NA	NA	NA	0.2	1.0	0.1	1.0	4.11	11,000
Cadmium (B)	7440439	1.0E-3	NA	NA	1.8E-3	NA	0.2	0.5	0.001	1.0	NR	NR
Camphene (l)	79925	NA	NA	NA	NA	NA	0.2	1.0	0.1	1.0	3.53	2,950
Caprolactam	105602	8.0E-1	NA	1.0E+1	NA	4.6E+4	0.2	1.0	0.1	1.0	-0.19	0.65
Carbaryl	63252	9.6E-2	NA	NA	NA	NA	0.2	1.0	0.1	1.0	2.4	229
Carbazole	86748	NA	1.0E-2	NA	NA	NA	0.2	1.0	0.1	1.0	3.59	3,380



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Hazardous Substance	Soil K <sub>oc</sub> for Ionizing Organic Compounds at pH=6.8	Soil-Water Distribution Coefficients for Inorganic Compounds at pH=6.8 (K <sub>d</sub> )	Henry's Law Constant at 25°C (HLC)	Air Diffusivity (D <sub>i</sub> or D <sub>a</sub> or D <sup>air</sup> )	Water Diffusivity (D <sub>w</sub> )	Lower Explosive Limit in Air (LEL)	Flash Point (FP)	Water Solubility (S)	Physical State at Standard Temperature & Pressure	Molecular Weight (MW)
	L/Kg	L/Kg	atm·m <sup>3</sup> /mol	cm <sup>2</sup> /s	cm <sup>2</sup> /s	unitless	°F	ug/L		g/mol
Barium (B)	NR	41	NR	NR	NR	NA	NA	NA	Inorganic	137.327
Benzene (l)	NR	NR	5.55E-3	0.088	9.8E-6	0.012	12	1.75E+6	Liquid	78.11
Benzidine	NR	NR	3.90E-11	0.08	1.5E-5	NA	NA	5.20E+5	Solid	184.24
Benzo(a)anthracene (Q)	NR	NR	3.35E-6	0.051	9.0E-6	NA	NA	9.4	Solid	228.3
Benzo(b)fluoranthene (Q)	NR	NR	1.11E-4	0.0226	5.56E-6	NA	NA	1.5	Solid	252.32
Benzo(k)fluoranthene (Q)	NR	NR	8.29E-7	0.0226	5.56E-6	NA	NA	0.8	Solid	252.32
Benzo(g,h,i)perylene	NR	NR	5.34E-8	0.08	8.0E-6	NA	NA	0.26	Solid	276.34
Benzo(a)pyrene (Q)	NR	NR	1.13E-6	0.043	9.0E-6	NA	NA	1.62	Solid	252.32
Benzoic acid	0.6	NR	1.54E-6	0.0536	7.97E-6	NA	NA	3.50E+6	Solid	122.1
Benzyl alcohol	NR	NR	3.90E-7	0.08	8.0E-6	NA	NA	4.40E+7	Liquid	108.13
Benzyl chloride	NR	NR	4.00E-4	0.075	7.8E-6	0.011	153	4.90E+5	Liquid	126.58
Beryllium	NR	790	NR	NR	NR	NA	NA	NA	Inorganic	9.012
bis(2-Chloroethoxy)ethane	NR	NR	7.81E-7	0.08	8.0E-6	NA	NA	1.89E+7	Liquid	187.07
bis(2-Chloroethyl)ether (l)	NR	NR	1.80E-5	0.0692	7.53E-6	0.027	131	1.72E+7	Liquid	143.01
bis(2-Ethylhexyl)phthalate	NR	NR	1.02E-7	0.0351	3.66E-6	NA	420	340	Liquid	390.57
Boron (B)	NR	NA	NR	NR	NR	NA	NA	NA	Inorganic	10.811
Bromate	NR	NA	1.00E+0	NR	NR	NA	NA	3.80E-4	Solid	79.9
Bromobenzene (l)	NR	NR	4.74E-4	0.08	8.0E-6	NA	NA	4.13E+5	Liquid	157.015
Bromodichloromethane	NR	NR	1.60E-3	0.0298	1.06E-5	NA	NA	6.74E+6	Liquid	163.8
Bromoform	NR	NR	5.35E-4	0.0149	1.03E-5	NA	NA	3.10E+6	Liquid	252.8
Bromomethane	NR	NR	1.42E-2	0.08	8.0E-6	0.1	NA	1.45E+7	Liquid	94.94
n-Butanol (l)	NR	NR	8.81E-6	0.08	9.6E-6	0.014	84	7.40E+7	Liquid	74.14
2-Butanone (MEK) (l)	NR	NR	3.60E-5	0.081	9.8E-6	NA	16	2.40E+8	Liquid	72.1
n-Butyl acetate	NR	NR	3.20E-4	0.08	8.0E-6	0.017	72	6.70E+6	Liquid	116.16
t-Butyl alcohol	NR	NR	1.17E-5	0.08	8.0E-6	0.024	52	1.0E+9	Liquid	74.12
Butyl benzyl phthalate	NR	NR	1.26E-6	0.0174	4.83E-6	NA	NA	2,690	Liquid	312.37
n-Butylbenzene	NR	NR	NA	0.08	8.0E-6	NA	NA	NA	Liquid	134.22
sec-Butylbenzene	NR	NR	NA	0.08	8.0E-6	NA	NA	NA	Liquid	134.22
tert-Butylbenzene (l)	NR	NR	NA	0.08	8.0E-6	NA	NA	NA	Liquid	134.22
Cadmium (B)	NR	75	NR	NR	NR	NA	NA	NA	Inorganic	112.411
Camphene (l)	NR	NR	2.05E+0	0.08	8.0E-6	NA	NA	33,400	Solid	136.26
Caprolactam	NR	NR	2.53E-8	0.08	8.0E-6	0.014	282	5.25E+9	Solid	113.2
Carbaryl	NR	NR	6.80E-4	0.08	8.0E-6	NA	NA	1.26E+5	Solid	201.24
Carbazole	NR	NR	1.53E-8	0.039	7.03E-6	NA	NA	7,480	Solid	167.21



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		mg/Kg-day	(mg/Kg-day) <sup>-1</sup>	ug/m <sup>3</sup>	(ug/m <sup>3</sup> ) <sup>-1</sup>	ug/m <sup>3</sup>	unitless	unitless	unitless	unitless	unitless	L/Kg
Carbofuran	1563662	5.0E-3	NA	NA	NA	NA	0.2	1.0	0.1	1.0	1.6	37.4
Carbon disulfide (I,R)	75150	1.1E-1	NA	7.0E+2	NA	NA	0.2	1.0	0.1	1.0	2	45.9
Carbon tetrachloride	56235	7.1E-4	5.5E-2	NA	2.36E-5	6.3E+4	0.2	1.0	0.1	1.0	2.73	174
Chlordane (J)	57749	1.5E-3	3.5E-1	7.0E-1	1.0E-4	NA	0.2	0.5	0.04	1.0	6.32	1.21E+5
Chloride	16887006	NA	NA	NA	NA	NA	0.2	0.5	0.01	1.0	NR	NR
Chlorobenzene (I)	108907	1.9E-2	NA	7.0E+1	NA	NA	0.2	1.0	0.1	1.0	2.86	220
para-Chlorobenzenesulfonic acid	98668	1.0E+0	NA	NA	NA	NA	0.2	1.0	0.1	1.0	-0.52	4.64E-01
1-Chloro-1,1-difluoroethane	75683	2.1E+0	NA	5.0E+4	NA	NA	0.2	1.0	0.1	1.0	1.81	32.5
Chloroethane	75003	1.8E+1	2.0E-3	1.0E+4	NA	NA	0.2	1.0	0.1	1.0	1.4	23.8
2-Chloroethyl vinyl ether	110758	NA	NA	NA	NA	NA	0.2	1.0	0.1	1.0	1.07	8.43
Chloroform	67663	1.3E-2	4.4E-3	NA	2.4E-6	NA	0.2	1.0	0.1	1.0	1.92	39.7
Chloromethane (I)	74873	NA	3.3E-3	9.0E+1	6.39E-7	2.07E+5	0.2	1.0	0.1	1.0	0.91	6.30
4-Chloro-3-methylphenol	59507	2.0E-2	NA	NA	NA	NA	0.2	1.0	0.1	1.0	3.1	1,120
beta-Chloronaphthalene	91587	2.5E-1	NA	NA	NA	NA	0.2	1.0	0.1	1.0	4.1	10,700
2-Chlorophenol	95578	6.2E-3	NA	NA	NA	NA	0.2	1.0	0.1	1.0	2.15	388
o-Chlorotoluene (I)	95498	2.0E-2	NA	7.0E+1	NA	NA	0.2	1.0	0.1	1.0	3.42	612
Chlorpyrifos	2921882	3.0E-2	NA	2.0E+0	NA	NA	0.2	0.5	0.1	1.0	5.3	18,900
Chromium (III) (B,H)	16065831	1.5E+0	NA	5.0E+0	NA	NA	0.7	0.5	0.01	1.0	NR	NR
Chromium (VI)	18540299	4.8E-3	NA	8.0E-3	1.2E-2	NA	0.7	0.5	0.01	1.0	NR	NR
Chrysene (Q)	218019	NA	4.1E-3	NA	NA	NA	0.2	0.5	0.13	1.0	5.7	4.01E+5
Cobalt	7440484	5.0E-3	NA	2.0E-1	NA	NA	0.2	0.5	0.01	1.0	NR	NR
Copper (B)	7440508	3.8E-2	NA	2.0E+0	NA	NA	1.0	0.5	0.01	1.0	NR	NR
Cyanazine	21725462	3.0E-3	3.7E-1	NA	NA	NA	0.2	1.0	0.1	1.0	2.2	146
Cyanide (P,R)	57125	5.4E-3*	NA	5.0E+1	NA	NA	0.2	1.0	0	1.0	NA	NA
Cyclohexanone	108941	4.5E+0	NA	1.0E+3	NA	NA	0.2	1.0	0.1	1.0	0.81	6.26
Dacthal	1861321	1.0E-2	NA	NA	NA	NA	0.2	1.0	0.1	1.0	4.4	21,200
Dalapon	75990	8.5E-2	NA	NA	NA	NA	0.2	1.0	0.1	1.0	0.77	5.72
4-4'-DDD	72548	3.0E-3	9.4E-2	NA	7.0E-5	NA	0.2	0.5	0.1	1.0	6.1	81,100
4-4'-DDE	72559	7.0E-4	2.0E-1	NA	9.7E-5	NA	0.2	0.5	0.1	1.0	6.76	2.70E+5
4-4'-DDT	50293	5.0E-4	2.0E-1	NA	9.7E-5	NA	0.2	0.5	0.03	1.0	6.53	1.78E+5
Decabromodiphenyl ether	1163195	1.0E-2	NA	3.5E+1	4.0E-7	NA	0.2	0.5	0.1	1.0	5.24	1.42E+5
Di-n-butyl phthalate	84742	1.2E-1	NA	5.0E+1	NA	NA	0.2	1.0	0.1	1.0	4.61	34,000
Di(2-ethylhexyl) adipate	103231	1.7E+0	5.9E-4	NA	3.4E-7	NA	0.2	0.5	0.1	1.0	6.11	1.01E+6
Di-n-octyl phthalate	117840	1.8E-2	NA	NA	NA	NA	0.2	0.5	0.1	1.0	7.51	2.41E+7



**TABLE 4. TOXICOLOGICAL AND CHEMICAL-PHYSICAL DATA  
FOR PART 201 GENERIC CLEANUP CRITERIA AND SCREENING LEVELS;  
PART 213 TIER 1 RISK-BASED SCREENING LEVELS (RBSLs)**

Hazardous Substance	Soil K <sub>oc</sub> for Ionizing Organic Compounds at pH=6.8	Soil-Water Distribution Coefficients for Inorganic Compounds at pH=6.8 (K <sub>d</sub> )	Henry's Law Constant at 25°C (HLC)	Air Diffusivity (D <sub>i</sub> or D <sub>a</sub> or D <sup>air</sup> )	Water Diffusivity (D <sub>w</sub> )	Lower Explosive Limit in Air (LEL)	Flash Point (FP)	Water Solubility (S)	Physical State at Standard Temperature & Pressure	Molecular Weight (MW)
	L/Kg	L/Kg	atm·m <sup>3</sup> /mol	cm <sup>2</sup> /s	cm <sup>2</sup> /s	unitless	°F	ug/L		g/mol
Carbofuran	NR	NR	3.90E-10	0.08	8.0E-6	NA	NA	7.00E+5	Solid	221.3
Carbon disulfide (I,R)	NR	NR	3.03E-2	0.104	1.0E-5	0.013	-22	1.19E+6	Liquid	76.14
Carbon tetrachloride	NR	NR	3.04E-2	0.078	8.8E-6	NA	NA	7.93E+5	Liquid	153.92
Chlordane (J)	NR	NR	4.86E-5	0.0118	4.37E-6	NA	NA	56	Solid	409.8
Chloride	NR	NA	NR	NR	NR	NA	NA	NA	Inorganic	35.453
Chlorobenzene (I)	NR	NR	3.70E-3	0.073	8.7E-6	0.013	82	4.72E+5	Liquid	112.56
para-Chlorobenzenesulfonic acid	NR	NA	NA	NA	NA	NA	226	NA	Solid	192.62
1-Chloro-1,1-difluoroethane	NR	NR	6.16E-2	0.08	8.0E-6	0.06	NA	3.9E+06	Gas	100.5
Chloroethane	NR	NR	8.80E-3	0.08	8.0E-6	0.038	-58	5.74E+6	Liquid	64.52
2-Chloroethyl vinyl ether	NR	NR	6.25E-4	0.08	8.0E-6	NA	NA	1.50E+7	Liquid	106.55
Chloroform	NR	NR	3.67E-3	0.104	1.0E-5	NA	NA	7.92E+6	Liquid	119.38
Chloromethane (I)	NR	NR	4.52E-2	0.13	6.5E-6	0.081	-60.8	6.34E+6	Liquid	50.49
4-Chloro-3-methylphenol	NR	NR	4.00E-7	0.08	8.0E-6	NA	NA	3.90E+6	Solid	142.6
beta-Chloronaphthalene	NR	NR	3.10E-4	0.08	8.0E-6	NA	NA	6,740	Solid	162.62
2-Chlorophenol	388	NR	3.91E-4	0.0501	9.46E-6	NA	NA	2.20E+7	Liquid	128.56
o-Chlorotoluene (I)	NR	NR	3.57E-3	0.08	8.0E-6	NA	96	3.73E+5	Liquid	126.58
Chlorpyrifos	NR	NR	7.80E+0	0.08	8.0E-6	NA	NA	1,120	Solid	350.59
Chromium (III) (B,H)	NR	1.8E+6	NR	NR	NR	NA	NA	NA	Inorganic	51.996
Chromium (VI)	NR	19	NR	NR	NR	NA	NA	NA	Inorganic	51.996
Chrysene (Q)	NR	NR	9.46E-5	0.0248	6.21E-6	NA	NA	1.6	Solid	228.3
Cobalt	NR	NA	NR	NR	NR	NA	NA	NA	Inorganic	58.933
Copper (B)	NR	360	NR	NR	NR	NA	NA	NA	Inorganic	63.546
Cyanazine	NR	NR	1.00E-10	0.08	8.0E-6	NA	NA	1.70E+5	Solid	241
Cyanide (P,R)	NR	NR	NR	0.08	8.0E-6	NA	NA	NA	Inorganic	26.02
Cyclohexanone	NR	NR	7.80E+0	0.08	8.0E-6	NA	146	2.30E+7	Liquid	98.14
Dacthal	NR	NR	2.18E-6	0.08	8.0E-6	NA	NA	500	Solid	331
Dalapon	NR	NR	6.43E-8	0.08	8.0E-6	NA	NA	5.02E+8	Liquid	142.97
4-4'-DDD	NR	NR	4.00E-6	0.0169	4.76E-6	NA	NA	90	Solid	320.05
4-4'-DDE	NR	NR	2.10E-5	0.0144	5.87E-6	NA	NA	120	Solid	518.03
4-4'-DDT	NR	NR	8.10E-6	0.0137	4.95E-6	NA	162	25	Solid	354.49
Decabromodiphenyl ether	NR	NR	4.02E-5	0.08	8.0E-6	NA	NA	30	Solid	959.22
Di-n-butyl phthalate	NR	NR	9.38E-10	0.0438	7.86E-6	NA	315	11,200	Liquid	278.34
Di(2-ethylhexyl) adipate	NR	NR	4.34E-7	0.08	8.0E-6	NA	NA	471	Liquid	370
Di-n-octyl phthalate	NR	NR	7.66E-7	0.0151	3.58E-6	NA	NA	3,000	Liquid	390.62



**TABLE 4. TOXICOLOGICAL AND CHEMICAL-PHYSICAL DATA  
FOR PART 201 GENERIC CLEANUP CRITERIA AND SCREENING LEVELS;  
PART 213 TIER 1 RISK-BASED SCREENING LEVELS (RBSLs)**

Hazardous Substance	Chemical Abstract Service Number (CAS#)	Oral Reference Dose (RfD)	Oral Slope Factor (SF)	Chronic Inhalation Reference Concentration (RfC)	Inhalation Unit Risk Factor (IURF)	Occupational Short Term Exposure Level (STEL)	Relative Source Contribution for Drinking Water (RSC)	Ingestion Absorption Efficiency (AEI)	Dermal Absorption Efficiency (AE <sub>d</sub> )	Relative Source Contribution for Soil (RSC)	Log Octanol-Water Partition Coefficient (Log K <sub>ow</sub> )	Soil Organic Carbon-Water Partition Coefficients for Organic Compounds (K <sub>oc</sub> )
		mg/Kg-day	(mg/Kg-day) <sup>-1</sup>	ug/m <sup>3</sup>	(ug/m <sup>3</sup> ) <sup>-1</sup>	ug/m <sup>3</sup>	unitless	unitless	unitless	unitless	unitless	L/Kg
Diacetone alcohol (I)	123422	NA	NA	2.4E+3	NA	NA	0.2	1.0	0.1	1.0	-0.34	0.464
Diazinon	333415	1.8E-4	NA	NA	NA	NA	0.2	1.0	0.1	1.0	3.4	2,200
Dibenzo(a,h)anthracene (Q)	53703	NA	4.1E+0	NA	NA	NA	0.2	0.5	0.13	1.0	6.69	3.77E+6
Dibenzofuran	132649	NA	NA	NA	NA	NA	0.2	1.0	0.1	1.0	4.2	13,500
Dibromochloromethane	124481	2.1E-2	4.9E-2	NA	2.45E-5	NA	0.2	1.0	0.1	1.0	2.17	62.6
Dibromochloropropane	96128	NA	1.2E+0	2.0E-1	NA	NA	0.2	1.0	0.1	1.0	2.68	431
Dibromomethane	74953	1.1E-2	NA	NA	NA	NA	0.2	1.0	0.1	1.0	1.62	39.2
Dicamba	1918009	3.00E-02	NA	NA	NA	NA	0.2	0.5	0.1	1	2.4	95.3
1,2-Dichlorobenzene	95501	8.6E-2	NA	1.5E+3	NA	3.01E+5	0.2	1.0	0.1	1.0	3.43	623
1,3-Dichlorobenzene	541731	9.0E-4	NA	NA	NA	NA	0.2	1.0	0.1	1.0	3.5	708
1,4-Dichlorobenzene	106467	NA	1.3E-2	NA	6.9E-6	NA	0.2	1.0	0.1	1.0	3.42	612
3,3'-Dichlorobenzidine	91941	NA	8.0E-1	NA	4.8E-4	NA	0.2	1.0	0.1	1.0	3.51	721
Dichlorodifluoromethane	75718	2.3E-1	NA	4.95E+4	NA	NA	0.2	1.0	0.1	1.0	2.15	60.4
1,1-Dichloroethane	75343	1.2E-1	NA	5.0E+2	NA	NA	0.2	1.0	0.1	1.0	1.79	31.3
1,2-Dichloroethane (I)	107062	NA	5.8E-2	NA	2.6E-5	NA	0.2	1.0	0.1	1.0	1.47	17.5
1,1-Dichloroethylene (I)	75354	9.0E-4	NA	NA	5E-5	7.9E+4	0.2	1.0	0.1	1.0	2.13	58.2
cis-1,2-Dichloroethylene	156592	1.1E-2	NA	3.4E+1	NA	NA	0.2	1.0	0.1	1.0	1.86	35.6
trans-1,2-Dichloroethylene	156605	1.7E-2	NA	7.0E+1	NA	NA	0.2	1.0	0.1	1.0	2.07	52.2
2,6-Dichloro-4-nitroaniline	99309	3.0E-1	NA	NA	NA	NA	0.2	1.0	0.1	1.0	2.76	517
2,4-Dichlorophenol	120832	1.0E-2	NA	7.7E+1	NA	NA	0.2	1.0	0.1	1.0	3.08	147
2,4-Dichlorophenoxyacetic acid	94757	1.0E-2	NA	1.0E+2	NA	NA	0.2	1.0	0.05	1.0	2.7	451
1,2-Dichloropropane (I)	78875	4.4E-1	3.7E-2	4.0E+0	NA	5.08E+5	0.2	1.0	0.1	1.0	1.97	43.5
1,3-Dichloropropene	542756	3.4E-2	1E-1	2.0E+1	4.0E-6	NA	0.2	1.0	0.1	1.0	2.0	45.9
Dichlorovos	62737	4.0E-4	5.2E-1	5.0E-1	NA	NA	0.2	1.0	0.1	1.0	1.4	15.4
Dicyclohexyl phthalate	84617	NA	NA	NA	NA	NA	0.2	0.5	0.1	1.0	6.2	1.24E+6
Dieldrin	60571	7.6E-5	8.0E+0	NA	4.6E-3	NA	0.2	0.5	0.1	1.0	5.37	21,400
Diethyl ether	60297	5.0E-1	NA	1.2E+4	NA	1.52E+6	0.2	1.0	0.1	1.0	0.83	6.55
Diethyl phthalate	84662	7.5E-1	NA	5.0E+1	NA	NA	0.2	1.0	0.1	1.0	2.5	287
Diethylene glycol monobutyl ether	112345	1.2E-2	NA	2.0E+1	NA	NA	0.2	1.0	0.1	1.0	0.32	2.06
Diisopropyl ether	108203	4.1E-3	NA	3.58E+2	NA	NA	0.2	1.0	0.1	1.0	1.67	25.2
Diisopropylamine (I)	108189	7.7E-4	NA	NA	NA	NA	0.2	1.0	0.1	1.0	1.6	37.4
Dimethyl phthalate	131113	1.0E-1	NA	5.0E+1	NA	NA	0.2	1.0	0.1	1.0	1.64	41.0
N,N-Dimethylacetamide	127195	2.5E-2	NA	NA	NA	NA	0.2	1.0	0.1	1.0	-0.77	0.175
N,N-Dimethylaniline	121697	2.2E-3	NA	NA	1.18E-5	5.0E+4	0.2	1.0	0.1	1.0	2.46	262



**TABLE 4. TOXICOLOGICAL AND CHEMICAL-PHYSICAL DATA  
FOR PART 201 GENERIC CLEANUP CRITERIA AND SCREENING LEVELS;  
PART 213 TIER 1 RISK-BASED SCREENING LEVELS (RBSLs)**

Hazardous Substance	Soil $K_{oc}$ for Ionizing Organic Compounds at pH=6.8	Soil-Water Distribution Coefficients for Inorganic Compounds at pH=6.8 (Kd)	Henry's Law Constant at 25°C (HLC)	Air Diffusivity ( $D_i$ or $D_a$ or $D^{air}$ )	Water Diffusivity ( $D_w$ )	Lower Explosive Limit in Air (LEL)	Flash Point (FP)	Water Solubility (S)	Physical State at Standard Temperature & Pressure	Molecular Weight (MW)
	L/Kg	L/Kg	atm·m <sup>3</sup> /mol	cm <sup>2</sup> /s	cm <sup>2</sup> /s	unitless	°F	ug/L		g/mol
Diacetone alcohol (I)	NR	NR	2.61E-7	0.08	8.0E-6	0.018	125	1.0E+9	Liquid	116.2
Diazinon	NR	NR	1.13E-7	0.08	8.0E-6	NA	180	68,800	Liquid	304.3
Dibenzo(a,h)anthracene (Q)	NR	NR	1.47E-8	0.0202	5.18E-6	NA	NA	2.49	Solid	278.36
Dibenzofuran	NR	NR	1.30E-5	0.08	8.0E-6	NA	NA	10,000	Solid	168.21
Dibromochloromethane	NR	NR	7.83E-4	0.0229	1.05E-5	NA	NA	2.60E+6	Liquid	208.29
Dibromochloropropane	NR	NR	1.90E-4	0.08	8.0E-6	NA	170	1,230	Liquid	236.34
Dibromomethane	NR	NR	9.00E-4	0.08	8.6E-6	NA	NA	1.10E+7	Liquid	173.85
Dicamba	NR	NA	7.90E-09	0.08	8.00E-06	NA	NA	4.50E+06	Solid	221.04
1,2-Dichlorobenzene	NR	NR	1.9E-3	0.069	7.9E-6	0.022	151	1.56E+5	Liquid	147.01
1,3-Dichlorobenzene	NR	NR	1.8E-3	0.08	8.0E-6	NA	NA	1.11E+5	Liquid	147.01
1,4-Dichlorobenzene	NR	NR	2.43E-3	0.069	7.9E-6	0.025	150	73,800	Solid	147
3,3'-Dichlorobenzidine	NR	NR	4.00E-9	0.0194	6.74E-6	NA	NA	3,110	Solid	253.1
Dichlorodifluoromethane	NR	NR	2.6E+0	0.08	8.0E-6	NA	NA	3.00E+5	Liquid	120.91
1,1-Dichloroethane	NR	NR	5.62E-3	0.0742	1.05E-5	0.054	2.0	5.06E+6	Liquid	98.96
1,2-Dichloroethane (I)	NR	NR	9.79E-4	0.104	9.9E-6	0.062	56	8.52E+6	Liquid	98.97
1,1-Dichloroethylene (I)	NR	NR	2.61E-2	0.09	1.04E-5	0.065	-2	2.25E+6	Liquid	96.94
cis-1,2-Dichloroethylene	NR	NR	4.08E-3	0.0736	1.13E-5	0.056	36	3.50E+6	Liquid	96.94
trans-1,2-Dichloroethylene	NR	NR	9.38E-3	0.0707	1.19E-5	0.056	36	6.30E+6	Liquid	96.94
2,6-Dichloro-4-nitroaniline	NR	NR	4.67E-8	0.08	8.0E-6	NA	NA	7,000	Solid	207.02
2,4-Dichlorophenol	147	NR	3.16E-6	0.0346	8.77E-6	NA	NA	4.50E+6	Liquid	163
2,4-Dichlorophenoxyacetic acid	NR	NR	4.50E-6	0.059	6.5E-6	NA	NA	6.80E+5	Solid	221.04
1,2-Dichloropropane (I)	NR	NR	2.80E-3	0.0782	8.73E-6	0.034	60	2.80E+6	Liquid	112.99
1,3-Dichloropropene	NR	NR	1.77E-2	0.0626	1.0E-5	0.053	77	2.80E+6	Liquid	110.97
Dichlorovos	NR	NR	9.58E-7	0.08	8.0E-6	NA	175	1.60E+7	Liquid	220.98
Dicyclohexyl phthalate	NR	NR	7.61E-5	0.08	8.0E-6	NA	NA	4,000	Solid	330.43
Dieldrin	NR	NR	1.51E-5	0.0125	4.74E-6	NA	NA	195	Solid	380.9
Diethyl ether	NR	NR	8.70E-4	0.074	9.3E-6	0.019	-49	6.10E+7	Liquid	74.12
Diethyl phthalate	NR	NR	4.50E-7	0.0256	6.35E-6	NA	322	1.08E+6	Liquid	222.23
Diethylene glycol monobutyl ether	NR	NR	1.52E-9	0.08	8.0E-6	NA	NA	1.0E+9	Liquid	162.23
Diisopropyl ether	NR	NR	1.3E-3	0.08	8.0E-6	0.014	-18	8,041	Liquid	102.18
Diisopropylamine (I)	NR	NR	9.60E-5	0.08	8.0E-6	0.011	20	3.69E+7	Liquid	101.22
Dimethyl phthalate	NR	NR	5.78E-7	0.067	6.3E-6	NA	295	4.19E+6	Liquid	194.19
N,N-Dimethylacetamide	NR	NR	1.31E-8	0.08	8.0E-6	NA	158	1.0E+9	Liquid	87.14
N,N-Dimethylaniline	NR	NR	8.12E-5	0.08	8.0E-6	NA	142	1.27E+6	Liquid	121.18



**TABLE 4. TOXICOLOGICAL AND CHEMICAL-PHYSICAL DATA  
FOR PART 201 GENERIC CLEANUP CRITERIA AND SCREENING LEVELS;  
PART 213 TIER 1 RISK-BASED SCREENING LEVELS (RBSLs)**

Hazardous Substance	Chemical Abstract Service Number (CAS#)	Oral Reference Dose (RfD)	Oral Slope Factor (SF)	Chronic Inhalation Reference Concentration (RfC)	Inhalation Unit Risk Factor (IURF)	Occupational Short Term Exposure Level (STEL)	Relative Source Contribution for Drinking Water (RSC)	Ingestion Absorption Efficiency (AEI)	Dermal Absorption Efficiency (AE <sub>d</sub> )	Relative Source Contribution for Soil (RSC)	Log Octanol-Water Partition Coefficient (Log Kow)	Soil Organic Carbon-Water Partition Coefficients for Organic Compounds (Koc)
		mg/Kg-day	(mg/Kg-day) <sup>-1</sup>	ug/m <sup>3</sup>	(ug/m <sup>3</sup> ) <sup>-1</sup>	ug/m <sup>3</sup>	unitless	unitless	unitless	unitless	unitless	L/Kg
Dimethylformamide (I)	68122	9.6E-2	NA	3.0E+1	NA	NA	0.2	1.0	0.1	1.0	-1.01	0.102
2,4-Dimethylphenol	105679	5.0E-2	NA	7.0E+1	NA	NA	0.2	1.0	0.1	1.0	2.36	209
2,6-Dimethylphenol	576261	6.0E-4	NA	NA	NA	NA	0.2	1.0	0.1	1.0	2.36	209
3,4-Dimethylphenol	95658	1.4E-3	NA	NA	NA	NA	0.2	1.0	0.1	1.0	2.23	156
Dimethylsulfoxide	67685	3.0E+1	NA	NA	NA	NA	0.2	1.0	0.1	1.0	-1.66	0.0234
2,4-Dinitrotoluene	121142	2.0E-3	1.1E-1	2.0E+0	2.0E-4	NA	0.2	1.0	0.1	1.0	2.01	94.6
Dinoseb	88857	1.0E-3	NA	NA	NA	NA	0.2	1.0	0.1	1.0	3.15	1,250
1,4-Dioxane (I)	123911	NA	1.0E-2	NA	5.5E-6	NA	0.2	1.0	0.1	1.0	-0.39	0.588
Diquat	85007	2.2E-3	NA	NA	NA	NA	0.2	1.0	0.1	1.0	-2.82	0.00169
Diuron	330541	4.3E-3	NA	7.0E+0	NA	NA	0.2	1.0	0.1	1.0	2.77	187
Endosulfan (J)	115297	6.0E-3	NA	NA	NA	NA	0.2	1.0	0.1	1.0	4.1	2,110
Endothall	145733	1.7E-2	NA	3.5E+1	NA	NA	0.2	1.0	0.1	1.0	-0.55	0.288
Endrin	72208	1.7E-4	NA	NA	NA	NA	0.2	0.5	0.1	1.0	5.06	12,200
Epichlorohydrin (I)	106898	1.0E-3	5.9E-1	1.0E+0	1.2E-6	NA	0.2	1.0	0.1	1.0	0.26	1.92
Ethanol (I)	64175	6.2E+1	NA	1.9E+4	NA	NA	1.0	1.0	0.1	1.0	-0.31	0.496
Ethyl acetate (I)	141786	9.0E-1	NA	3.2E+3	NA	NA	0.2	1.0	0.1	1.0	0.69	4.77
Ethyl-tert-butyl ether (ETBE)	637923	NA	NA	373	NA	NA		1.0	0.1	1.0	1.92	3.97
Ethylbenzene (I)	100414	9.7E-2	NA	1.0E+3	3.1E-7	5.43E+5	0.2	1.0	0.1	1.0	3.14	367
Ethylene dibromide	106934	NA	5.7E+1	NA	2.2E-4	NA	0.2	1.0	0.1	1.0	1.75	52.5
Ethylene glycol	107211	2.0E+0	NA	1.0E+3	NA	1.0E+5	0.2	1.0	0.1	1.0	-1.4	0.0421
Ethylene glycol monobutyl ether	111762	5.0E-1	NA	1.3E+4	NA	NA	0.2	1.0	0.1	1.0	0.83	6.55
Fluoranthene	206440	1.2E-1	NA	1.4E+2	NA	NA	0.2	0.5	0.1	1.0	5.12	1.08E+5
Fluorene	86737	1.2E-1	NA	1.4E+2	NA	NA	0.2	1.0	0.1	1.0	4.21	13,800
Fluorine (soluble fluoride) (B)	7782414	6.0E-2	NA	NA	NA	3.1E+3	1.0	0.5	0.01	1.0	NR	NR
Formaldehyde	50000	1.8E-1	NA	NA	1.3E-5	3.7E+2	0.2	1.0	0.1	1.0	-0.051	1.09
Formic acid (I,U)	64186	1.4E+0	NA	2.0E+0	NA	1.9E+4	0.2	1.0	0.1	1.0	-0.538	0.449
1-Formylpiperidine	2591868	1.1E-2	NA	NA	NA	NA	0.2	1.0	0.1	1.0	NA	NA
Gentian violet	548629	1.4E-1	5.5E-2	NA	NA	NA	0.2	1.0	0.1	1.0	0.51	3.17
Glyphosate	1071836	1.0E-1	NA	NA	NA	NA	0.2	0.5	0.1	1.0	-4.47	4.04E-5
Heptachlor	76448	2.3E-3	1.6E+0	NA	1.3E-3	NA	0.2	0.5	0.1	1.0	6.26	1.43E+6
Heptachlor epoxide	1024573	8.5E-6	2.9E+0	NA	2.6E-3	NA	0.2	0.5	0.1	1.0	5.0	82,300
n-Heptane	142825	4.4E+0	NA	3.5E+3	NA	2.05E+6	0.2	1.0	0.1	1.0	4.72	43,700
Hexabromobenzene	87821	2.8E-3	NA	NA	NA	NA	0.2	0.5	0.1	1.0	6.1	9.92E+5
Hexachlorobenzene (C-66)	118741	8.0E-4	1.0E+0	NA	4.6E-4	NA	0.2	0.5	0.1	1.0	5.89	55,300



**TABLE 4. TOXICOLOGICAL AND CHEMICAL-PHYSICAL DATA  
FOR PART 201 GENERIC CLEANUP CRITERIA AND SCREENING LEVELS;  
PART 213 TIER 1 RISK-BASED SCREENING LEVELS (RBSLs)**

Hazardous Substance	Soil $K_{oc}$ for Ionizing Organic Compounds at pH=6.8	Soil-Water Distribution Coefficients for Inorganic Compounds at pH=6.8 (Kd)	Henry's Law Constant at 25°C (HLC)	Air Diffusivity ( $D_i$ or $D_a$ or $D^{air}$ )	Water Diffusivity ( $D_w$ )	Lower Explosive Limit in Air (LEL)	Flash Point (FP)	Water Solubility (S)	Physical State at Standard Temperature & Pressure	Molecular Weight (MW)
	L/Kg	L/Kg	atm·m <sup>3</sup> /mol	cm <sup>2</sup> /s	cm <sup>2</sup> /s	unitless	°F	ug/L		g/mol
Dimethylformamide (I)	NR	NR	7.39E-8	0.08	8.0E-6	NA	136	1.0E+9	Liquid	73.1
2,4-Dimethylphenol	NR	NR	2.0E-6	0.0584	8.69E-6	NA	NA	7.87E+6	Solid	122.16
2,6-Dimethylphenol	NR	NR	5.02E-6	0.08	8.0E-6	NA	NA	6.14E+6	Solid	122.16
3,4-Dimethylphenol	NR	NR	3.78E-7	0.08	8.0E-6	NA	NA	4.93E+6	Solid	122.16
Dimethylsulfoxide	NR	NR	5.80E-8	0.08	8.0E-6	NA	NA	1.66E+8	Liquid	78.14
2,4-Dinitrotoluene	NR	NR	9.26E-8	0.203	7.06E-6	NA	NA	2.70E+5	Solid	183.15
Dinoseb	NR	NR	4.60E-7	0.08	8.0E-6	NA	NA	52,000	Liquid	240.2
1,4-Dioxane (I)	NR	NR	4.90E-6	0.23	1.0E-5	0.02	55	9.00E+8	Liquid	88.11
Diquat	NR	NR	1.42E-13	0.08	8.0E-6	NA	NA	7.00E+5	Solid	344.08
Diuron	NR	NR	2.70E-6	0.08	8.0E-6	NA	NA	37,300	Solid	233.1
Endosulfan (J)	NR	NR	1.12E-5	0.0115	4.55E-6	NA	NA	510	Solid	406.9
Endothall	NR	NR	2.60E-10	0.08	8.0E-6	NA	NA	1.00E+8	Solid	186.18
Endrin	NR	NR	7.52E-6	0.0125	4.74E-6	NA	NA	250	Solid	380.9
Epichlorohydrin (I)	NR	NR	3.00E-5	0.086	9.8E-6	0.038	93	6.60E+7	Liquid	92.53
Ethanol (I)	NR	NR	6.29E-6	0.08	8.0E-6	0.033	55	1.0E+9	Liquid	46.07
Ethyl acetate (I)	NR	NR	1.70E-4	0.073	9.7E-6	0.02	24	6.40E+7	Liquid	88.12
Ethyl-tert-butyl ether (ETBE)	NR	NR	1.389E-3	0.08	8.0E-6	NA	NA	5.63E+6	Liquid	102.18
Ethylbenzene (I)	NR	NR	7.88E-3	0.075	7.8E-6	0.008	55	1.69E+5	Liquid	106.17
Ethylene dibromide	NR	NR	4.60E-4	0.08	8.0E-6	NA	NA	4.20E+6	Liquid	187.9
Ethylene glycol	NR	NR	6.00E-8	0.08	8.0E-6	0.032	232	1.0E+9	Liquid	62.07
Ethylene glycol monobutyl ether	NR	NR	5.13E-2	0.08	8.0E-6	NA	143	2.24E+8	Liquid	118.2
Fluoranthene	NR	NR	1.61E-5	0.0302	6.35E-6	NA	NA	206	Solid	202.24
Fluorene	NR	NR	6.36E-5	0.0363	7.88E-6	NA	NA	1,980	Solid	166.23
Fluorine (soluble fluoride) (B)	NR	NA	NR	NR	NR	NA	NA	NA	Inorganic	38
Formaldehyde	NR	NR	2.80E-4	0.18	2.0E-5	0.07	NA	5.50E+8	Liquid	30.03
Formic acid (I,U)	NR	NR	2.50E-6	0.079	1.4E-6	0.18	122	1.0E+9	Liquid	46.03
1-Formylpiperidine	NR	NR	NA	0.08	8.0E-6	NA	NA	NA	Liquid	113.2
Gentian violet	NR	NR	3.06E-16	0.08	8.0E-6	NA	NA	1.00E+6	Solid	408
Glyphosate	NR	NR	1.50E-9	0.08	8.0E-6	NA	NA	1.16E+7	Solid	169.09
Heptachlor	NR	NR	1.48E-3	0.0112	5.69E-6	NA	NA	180	Solid	373.4
Heptachlor epoxide	NR	NR	9.50E-6	0.0132	4.23E-6	NA	NA	200	Solid	389.32
n-Heptane	NR	NR	2.11E+0	0.08	8.0E-6	0.0105	25	2,690	Liquid	100.2
Hexabromobenzene	NR	NR	1.30E-5	0.08	8.0E-6	NA	NA	0.17	Solid	551
Hexachlorobenzene (C-66)	NR	NR	1.32E-3	0.0542	5.91E-6	NA	NA	6,200	Solid	284.78



**TABLE 4. TOXICOLOGICAL AND CHEMICAL-PHYSICAL DATA  
FOR PART 201 GENERIC CLEANUP CRITERIA AND SCREENING LEVELS;  
PART 213 TIER 1 RISK-BASED SCREENING LEVELS (RBSLs)**

Hazardous Substance	Chemical Abstract Service Number (CAS#)	Oral Reference Dose (RfD)	Oral Slope Factor (SF)	Chronic Inhalation Reference Concentration (RfC)	Inhalation Unit Risk Factor (IURF)	Occupational Short Term Exposure Level (STEL)	Relative Source Contribution for Drinking Water (RSC)	Ingestion Absorption Efficiency (AEI)	Dermal Absorption Efficiency (AE <sub>d</sub> )	Relative Source Contribution for Soil (RSC)	Log Octanol-Water Partition Coefficient (Log K <sub>ow</sub> )	Soil Organic Carbon-Water Partition Coefficients for Organic Compounds (K <sub>oc</sub> )
		mg/Kg-day	(mg/Kg-day) <sup>-1</sup>	ug/m <sup>3</sup>	(ug/m <sup>3</sup> ) <sup>-1</sup>	ug/m <sup>3</sup>	unitless	unitless	unitless	unitless	unitless	L/Kg
Hexachlorobutadiene (C-46)	87683	2.0E-3	5.2E-2	NA	2.2E-5	NA	0.2	1.0	0.1	1.0	4.81	53,500
alpha-Hexachlorocyclohexane	319846	NA	2.0E+0	NA	1.83E-3	NA	0.2	1.0	0.1	1.0	3.8	1,220
beta-Hexachlorocyclohexane	319857	NA	9.7E-1	NA	5.3E-4	NA	0.2	1.0	0.1	1.0	3.81	1,250
Hexachlorocyclopentadiene (C-56)	77474	6.0E-3	NA	0.2	NA	NA	0.2	0.5	0.1	1.0	5.39	1.99E+5
Hexachloroethane	67721	1.0E-3	8.5E-3	3.5E+0	4.0E-6	NA	0.2	1.0	0.1	1.0	4.0	1,760
n-Hexane	110543	4.1E-1	NA	2.0E+2	NA	NA	0.2	1.0	0.1	1.0	4.0	1,760
2-Hexanone	591786	1.4E-1	NA	4.0E+1	NA	NA	0.2	1.0	0.1	1.0	1.4	23.8
Indeno(1,2,3-cd)pyrene (Q)	193395	NA	4.1E-1	NA	NA	NA	0.2	0.5	0.13	1.0	6.65	3.45E+6
Iron (B)	7439896	3.0E-1	NA	NA	NA	NA	0.2	0.5	0.01	1.0	NR	NR
Isobutyl alcohol (I)	78831	3.2E-1	NA	1.5E+3	NA	NA	0.2	1.0	0.1	1.0	0.75	5.46
Isophorone	78591	1.5E-1	1.1E-3	2.8E+2	2.7E-7	2.8E+4	0.2	1.0	0.1	1.0	1.699	46.8
Isopropyl alcohol (I)	67630	6.4E-2	NA	2.2E+2	NA	1.23E+6	0.2	1.0	0.1	1.0	0.05	1.31
Isopropyl benzene	98828	1.1E-1	NA	8.7E+1	NA	NA	0.2	1.0	0.1	1.0	3.6	3,460
Lead (B)	7439921	NA	NA	1.5E+0	NA	NA	0.2	0.5	0.01	1.0	NR	NR
Lindane	58899	3.3E-4	7.1E-1	NA	NA	NA	0.2	1.0	0.04	1.0	3.73	1,080
Lithium (B)	7439932	2.8E-2	NA	NA	NA	NA	0.2	0.5	0.01	1.0	NR	NR
Magnesium (B)	7439954	1.1E+1	NA	1.0E+2	NA	NA	1.0	0.5	0.01	1.0	NR	NR
Manganese (B)	7439965	4.7E-2	NA	5.0E-2	NA	NA	0.5	0.5	0.01	1.0	NR	NR
Mercury (Total) (B,Z)	Varies	3.0E-4	NA	0.3	NA	NA	0.2	0.5	0.01	1.0	5.95	NR
Methane (K)	74828	NA	NA	NA	NA	NA	0.2	1.0	0.1	1.0	1.09	11.8
Methanol	67561	5.0E-1	NA	3.25E+3	NA	3.28E+6	0.2	1.0	0.1	1.0	-0.72	0.196
Methoxychlor	72435	5.0E-3	NA	NA	NA	NA	0.2	0.5	0.1	1.0	5.08	12,600
2-Methoxyethanol (I)	109864	1.0E-3	NA	2.0E+1	NA	NA	0.2	1.0	0.1	1.0	-0.77	0.175
2-Methyl-4-chlorophenoxyacetic acid	94746	1.0E-3	NA	NA	NA	NA	0.2	1.0	0.1	1.0	3.25	1,570
2-Methyl-4,6-dinitrophenol	534521	3.5E-4	NA	NA	NA	NA	0.2	1.0	0.1	1.0	2.1	116
N-Methyl-morpholine (I)	109024	2.7E-3	NA	NA	NA	NA	0.2	1.0	0.1	1.0	-0.33	0.474
Methyl parathion	298000	2.5E-4	NA	NA	NA	NA	0.2	1.0	0.1	1.0	2.9	710
4-Methyl-2-pentanone (MIBK) (I)	108101	2.5E-1	NA	2.05E+3	NA	3.07E+6	0.2	1.0	0.1	1.0	1.18	14.5
Methyl-tert-butyl ether (MTBE)	1634044	3.3E-2	3.4E-3	3.0E+3	NA	NA	0.2	1.0	0.1	1.0	0.99	9.41
Methylcyclopentane (I)	96377	NA	NA	NA	NA	NA	0.2	1.0	0.1	1.0	3.37	2,060
(MBOCA)	101144	7.3E-4	7.7E-1	NA	3.7E-5	NA	0.2	1.0	0.1	1.0	3.92	7,140
Methylene chloride	75092	5.8E-2	4.2E-3	NA	4.7E-7	NA	0.2	1.0	0.1	1.0	1.26	11.9
2-Methylnaphthalene	91576	3.6E-2	NA	NA	NA	NA	0.2	1.0	0.1	1.0	3.9	6,820
Methylphenols (J)	1319773	5.0E-2	NA	1.0E+2	NA	NA	0.2	1.0	0.1	1.0	1.99	45.1



**TABLE 4. TOXICOLOGICAL AND CHEMICAL-PHYSICAL DATA  
FOR PART 201 GENERIC CLEANUP CRITERIA AND SCREENING LEVELS;  
PART 213 TIER 1 RISK-BASED SCREENING LEVELS (RBSLs)**

Hazardous Substance	Soil $K_{oc}$ for Ionizing Organic Compounds at pH=6.8	Soil-Water Distribution Coefficients for Inorganic Compounds at pH=6.8 (Kd)	Henry's Law Constant at 25°C (HLC)	Air Diffusivity ( $D_i$ or $D_a$ or $D^{air}$ )	Water Diffusivity ( $D_w$ )	Lower Explosive Limit in Air (LEL)	Flash Point (FP)	Water Solubility (S)	Physical State at Standard Temperature & Pressure	Molecular Weight (MW)
	L/Kg	L/Kg	atm·m <sup>3</sup> /mol	cm <sup>2</sup> /s	cm <sup>2</sup> /s	unitless	°F	ug/L		g/mol
Hexachlorobutadiene (C-46)	NR	NR	8.15E-3	0.0561	6.16E-6	NA	NA	3,230	Liquid	260.76
alpha-Hexachlorocyclohexane	NR	NR	1.06E-5	0.0142	7.34E-6	NA	NA	2,000	Solid	290.82
beta-Hexachlorocyclohexane	NR	NR	7.43E-7	0.0142	7.34E-6	NA	NA	240	Solid	290.82
Hexachlorocyclopentadiene (C-56)	NR	NR	2.70E-2	0.0161	7.21E-6	NA	NA	1,800	Liquid	272.77
Hexachloroethane	NR	NR	3.89E-3	0.0025	6.8E-6	NA	NA	50,000	Solid	236.74
n-Hexane	NR	NR	1.40E-2	0.08	8.0E-6	0.011	-7	12,000	Liquid	86.18
2-Hexanone	NR	NR	9.57E-5	0.08	8.0E-6	NA	77	1.60E+7	Liquid	100.16
Indeno(1,2,3-cd)pyrene (Q)	NR	NR	1.60E-6	0.019	5.66E-6	NA	NA	0.022	Solid	276.34
Iron (B)	NR	NA	NR	NR	NR	NA	NA	NA	Inorganic	55.845
Isobutyl alcohol (I)	NR	NR	1.30E-5	0.08	8.0E-6	NA	82	7.60E+7	Liquid	74.14
Isophorone	NR	NR	6.20E-6	0.0623	6.76E-6	0.008	184	1.20E+7	Liquid	138.23
Isopropyl alcohol (I)	NR	NR	8.07E-6	0.08	8.0E-6	0.02	53	1.0E+9	Liquid	60.09
Isopropyl benzene	NR	NR	1.50E-2	0.086	7.1E-6	0.009	96	56,000	Liquid	122.16
Lead (B)	NR	11,000	NR	NR	NR	NA	NA	NA	Inorganic	207.2
Lindane	NR	NR	1.40E-5	0.0176	7.34E-6	NA	NA	6,800	Solid	290.9
Lithium (B)	NR	NA	NR	NR	NR	NA	NA	NA	Inorganic	6.941
Magnesium (B)	NR	NA	NR	NR	NR	NA	NA	NA	Inorganic	24.305
Manganese (B)	NR	NA	NR	NR	NR	NA	NA	NA	Inorganic	54.938
Mercury (Total) (B,Z)	NR	52	7.10E-10	0.037	6.3E-6	NA	NA	56	Inorganic	200.59
Methane (K)	NR	NR	6.58E-1	0.08	8.0E-6	0.053	-306	NA	Gas	16.04
Methanol	NR	NR	1.70E-4	0.15	1.3E-5	0.06	52	2.90E+7	Liquid	32.05
Methoxychlor	NR	NR	1.58E-5	0.0156	4.46E-6	NA	NA	45	Solid	345.7
2-Methoxyethanol (I)	NR	NR	9.51E-7	0.08	8.0E-6	NA	NA	1.0E+9	Liquid	76.1
2-Methyl-4-chlorophenoxyacetic acid	NR	NR	1.33E-9	0.08	8.0E-6	NA	NA	9.24E+5	Solid	305.79
2-Methyl-4,6-dinitrophenol	NR	NR	4.30E-7	0.08	8.0E-6	NA	NA	2.00E+5	Solid	198.13
N-Methyl-morpholine (I)	NR	NR	2.50E-7	0.08	8.0E-6	NA	NA	1.0E+9	Liquid	101.17
Methyl parathion	NR	NR	1.10E-7	0.08	8.0E-6	NA	NA	50,000	Solid	263.23
4-Methyl-2-pentanone (MIBK) (I)	NR	NR	1.20E-4	0.075	7.8E-6	NA	64	2.00E+7	Liquid	100.2
Methyl-tert-butyl ether (MTBE)	NR	NR	6.39E-4	0.08	8.0E-6	NA	NA	4.68E+7	Liquid	88.15
Methylcyclopentane (I)	NR	NR	3.63E-1	0.08	8.0E-6	NA	NA	73,890	Liquid	84.16
(MBOCA)	NR	NR	4.10E-11	0.08	8.0E-6	NA	NA	14,000	Solid	267.17
Methylene chloride	NR	NR	2.40E-3	0.101	1.17E-5	0.13	NA	1.70E+7	Liquid	50.5
2-Methylnaphthalene	NR	NR	4.99E-4	0.08	8.0E-6	NA	NA	24,600	Solid	142.2
Methylphenols (J)	NR	NR	1.60E-6	0.074	8.3E-6	NA	178	2.80E+7	Solid	108.13



**TABLE 4. TOXICOLOGICAL AND CHEMICAL-PHYSICAL DATA  
FOR PART 201 GENERIC CLEANUP CRITERIA AND SCREENING LEVELS;  
PART 213 TIER 1 RISK-BASED SCREENING LEVELS (RBSLs)**

Hazardous Substance	Chemical Abstract Service Number (CAS#)	Oral Reference Dose (RfD)	Oral Slope Factor (SF)	Chronic Inhalation Reference Concentration (RfC)	Inhalation Unit Risk Factor (IURF)	Occupational Short Term Exposure Level (STEL)	Relative Source Contribution for Drinking Water (RSC)	Ingestion Absorption Efficiency (AEI)	Dermal Absorption Efficiency (AE <sub>d</sub> )	Relative Source Contribution for Soil (RSC)	Log Octanol-Water Partition Coefficient (Log K <sub>ow</sub> )	Soil Organic Carbon-Water Partition Coefficients for Organic Compounds (K <sub>oc</sub> )
		mg/Kg-day	(mg/Kg-day) <sup>-1</sup>	ug/m <sup>3</sup>	(ug/m <sup>3</sup> ) <sup>-1</sup>	ug/m <sup>3</sup>	unitless	unitless	unitless	unitless	unitless	L/Kg
Metolachlor	51218452	2.3E-1	3.5E-3	NA	NA	NA	0.2	1.0	0.1	1.0	3.13	361
Metribuzin	21087649	2.50E-02	NA	NA	NA	NA	0.2	0.5	0.1	1	1.7	46.9
Mirex	2385855	2.3E-4	9.3E-1	NA	NA	NA	0.2	0.5	0.1	1.0	6.70	3.86E+6
Molybdenum (B)	7439987	5.0E-3	NA	NA	NA	NA	0.4	0.5	0.01	1.0	NR	NR
Naphthalene	91203	7.1E-2	NA	3.0E+0	3.1E-6	7.9E+4	0.2	1.0	0.1	1.0	3.36	2,010
Nickel (B)	7440020	7.6E-2	NA	NA	2.4E-4	NA	0.2	0.5	0.01	1.0	NR	NR
Nitrate (B,N)	14797558	1.6E+0	NA	NA	NA	NA	1.0	0.5	0.01	1.0	NR	NR
Nitrite (B,N)	14797650	1.0E-1	NA	NA	NA	NA	1.0	0.5	0.01	1.0	NR	NR
Nitrobenzene (I)	98953	4.6E-4	NA	0.7	2.0E-5	NA	0.2	1.0	0.1	1.0	1.84	64.4
2-Nitrophenol	88755	2.8E-3	NA	NA	NA	NA	0.2	1.0	0.1	1.0	1.8	58.8
n-Nitroso-di-n-propylamine	621647	2.5E-1	4.5	NA	2.0E-3	NA	0.2	1.0	0.1	1.0	1.4	23.8
N-Nitrosodiphenylamine	86306	2.5E-1	3.1E-3	NA	NA	NA	0.2	1.0	0.1	1.0	3.16	381
Oxamyl	23135220	3.8E-2	NA	NA	NA	NA	0.2	1.0	0.1	1.0	-0.47	0.508
Oxo-hexyl acetate	88230357	1.0E-2	NA	3.1E+1	NA	NA	0.2	1.0	0.1	1.0	NA	NA
Pendimethalin	40487421	1.2E-1	NA	NA	NA	NA	0.2	0.5	0.1	1.0	5.18	1.24E+5
Pentachlorobenzene	608935	8.3E-4	NA	NA	NA	NA	0.2	0.5	0.1	1.0	5.26	1.48E+5
Pentachloronitrobenzene	82688	7.5E-3	NA	5.0E+0	NA	NA	0.2	1.0	0.1	1.0	4.64	36,400
Pentachlorophenol	87865	3.0E-2	6.8E-2	1.0E+2	3.0E-5	NA	0.2	0.5	0.25	1.0	5.09	592
Pentane	109660	NA	NA	1.8E+4	NA	2.21E+6	0.2	1.0	0.1	1.0	3.42	2,300
2-Pentene (I)	109682	NA	NA	NA	NA	NA	0.2	1.0	0.1	1.0	2.58	344
Phenanthrene	85018	7.1E-3	NA	1.0E-1	NA	NA	0.2	1.0	0.1	1.0	4.6	33,300
Phenol	108952	6.0E-1	NA	6.0E+2	NA	NA	0.2	1.0	0.1	1.0	1.48	17.8
Phosphorus (Total)	7723140	1.1E+1*	NA	NA	NA	NA	0.2	0.5	0.1	1.0	NR	NA
Phthalic acid	88993	1.9E+0	NA	NA	NA	NA	0.2	1.0	0.1	1.0	0.73	5.22
Phthalic anhydride	85449	2.1E+0	NA	NA	NA	NA	0.2	1.0	0.1	1.0	1.6	37.4
Picloram	1918021	7.0E-2	NA	NA	NA	NA	0.2	1.0	0.1	1.0	0.3	1.97
Piperidine	110894	4.4E-4	NA	1.4E+2	NA	NA	0.2	1.0	0.1	1.0	0.84	6.7
Polybrominated biphenyls (J)	67774327	4.3E-6	7.2E+0	NA	NA	NA	0.2	0.5	0.1	1.0	7.07	8.91E+6
Polychlorinated biphenyls (PCBs) (J,T)	1336363	2E-5	2.0E+0	NA	6.0E-4	NA	0.2	0.5	0.14	1.0	5.58	3.06E+5
Prometon	1610180	2.2E-2	NA	NA	NA	NA	0.2	1.0	0.1	1.0	2.99	870
Propachlor	1918167	1.3E-2	NA	NA	NA	NA	0.2	1.0	0.1	1.0	2.01	94.6
Propazine	139402	2.7E-2	NA	NA	NA	NA	0.2	1.0	0.1	1.0	2.75	505
Propionic acid	79094	1.7E+0	NA	3.0E+2	NA	NA	0.2	1.0	0.1	1.0	0.28	1.89
Propyl alcohol (I)	71238	1.9E-1	NA	7.3E+2	NA	6.14E+5	0.2	1.0	0.1	1.0	0.25	1.89



**TABLE 4. TOXICOLOGICAL AND CHEMICAL-PHYSICAL DATA  
FOR PART 201 GENERIC CLEANUP CRITERIA AND SCREENING LEVELS;  
PART 213 TIER 1 RISK-BASED SCREENING LEVELS (RBSLs)**

Hazardous Substance	Soil $K_{oc}$ for Ionizing Organic Compounds at pH=6.8	Soil-Water Distribution Coefficients for Inorganic Compounds at pH=6.8 (Kd)	Henry's Law Constant at 25°C (HLC)	Air Diffusivity ( $D_i$ or $D_a$ or $D^{air}$ )	Water Diffusivity ( $D_w$ )	Lower Explosive Limit in Air (LEL)	Flash Point (FP)	Water Solubility (S)	Physical State at Standard Temperature & Pressure	Molecular Weight (MW)
	L/Kg	L/Kg	atm·m <sup>3</sup> /mol	cm <sup>2</sup> /s	cm <sup>2</sup> /s	unitless	°F	ug/L		g/mol
Metolachlor	NR	NR	9.90E-9	0.08	8.0E-6	NA	NA	5.30E+5	Liquid	283.83
Metribuzin	NR	NA	8.80E-02	0.08	8.00E-06	NA	NA	1.20E+06	Solid	214.29
Mirex	NR	NR	5.16E-4	0.08	8.0E-6	NA	NA	6.8E-6	Solid	545.54
Molybdenum (B)	NR	NA	NR	NR	NR	NA	NA	NA	Inorganic	95.94
Naphthalene	NR	NR	4.83E-4	0.059	7.5E-6	0.009	174	31,000	Solid	128.17
Nickel (B)	NR	65	NR	NR	NR	NA	NA	NA	Inorganic	58.7
Nitrate (B,N)	NR	NA	NR	NR	NR	NA	NA	NA	Inorganic	62
Nitrite (B,N)	NR	NA	NR	NR	NR	NA	NA	NA	Inorganic	46
Nitrobenzene (I)	NR	NR	2.40E-5	0.076	8.6E-6	NA	190	2.09E+6	Liquid	123.11
2-Nitrophenol	NR	NR	3.50E-6	0.08	8.0E-6	NA	NA	2.50E+6	Solid	139.11
n-Nitroso-di-n-propylamine	NR	NR	2.25E-6	0.0545	8.17E-6	NA	NA	9.89E+6	Liquid	130.22
N-Nitrosodiphenylamine	NR	NR	5.00E-6	0.0312	6.35E-6	NA	NA	35,100	Solid	198.22
Oxamyl	NR	NR	2.37E-10	0.08	8.0E-6	NA	NA	2.80E+8	Solid	219.29
Oxo-hexyl acetate	NR	NR	NA	0.08	8.0E-6	NA	NA	NA	Liquid	144.2
Pendimethalin	NR	NR	8.56E-7	0.08	8.0E-6	NA	NA	275	Solid	281.31
Pentachlorobenzene	NR	NR	8.40E-4	0.067	6.3E-6	NA	NA	650	Liquid	250.3
Pentachloronitrobenzene	NR	NR	2.90E-2	0.08	8.0E-6	NA	NA	32	Solid	295.32
Pentachlorophenol	592	NR	2.44E-8	0.056	6.1E-6	NA	NA	1.85E+6	Solid	266.32
Pentane	NR	NR	1.26E+0	0.08	8.0E-6	0.015	-57	38,200	Liquid	72.15
2-Pentene (I)	NR	NR	2.3E-1	0.08	8.0E-6	NA	NA	2.03E+5	Liquid	70.13
Phenanthrene	NR	NR	2.3E-5	0.08	8.0E-6	NA	NA	1,000	Solid	178.24
Phenol	NR	NR	3.97E-7	0.082	9.1E-6	0.018	175	8.28E+7	Liquid	147.01
Phosphorus (Total)	NR	NR	NR	0.08	8.0E-6	NA	NA	NA	Solid	30.974
Phthalic acid	NR	NR	2.18E-12	0.08	8.0E-6	NA	NA	1.42E+7	Liquid	166.13
Phthalic anhydride	NR	NR	1.63E-8	0.08	8.0E-6	1.7E+7	305	6.2E+6	Liquid	148.1
Picloram	NR	NR	4.05E-11	0.08	8.0E-6	NA	NA	4.30E+5	Solid	241.48
Piperidine	NR	NR	4.45E-6	0.08	8.0E-6	NA	NA	1.0E+9	Liquid	85.15
Polybrominated biphenyls (J)	NR	NR	3.90E-6	0.08	8.0E-6	NA	NA	1.66E+7	Solid	NA
Polychlorinated biphenyls (PCBs) (J,T)	NR	NR	4.20E-4	0.08	8.0E-6	NA	NA	44.7	Solid	268.4
Prometon	NR	NR	1.98E-9	0.08	8.0E-6	NA	NA	7.50E+5	Solid	225.29
Propachlor	NR	NR	1.09E-7	0.08	8.0E-6	NA	NA	6.55E+5	Solid	211.69
Propazine	NR	NR	4.60E-9	0.08	8.0E-6	NA	NA	8,600	Solid	229.75
Propionic acid	NR	NR	4.45E-7	0.08	8.0E-6	0.029	126	1.0E+9	Liquid	74.09
Propyl alcohol (I)	NR	NR	7.41E-6	0.08	8.0E-6	0.022	72	1.0E+9	Liquid	60.11



**TABLE 4. TOXICOLOGICAL AND CHEMICAL-PHYSICAL DATA  
FOR PART 201 GENERIC CLEANUP CRITERIA AND SCREENING LEVELS;  
PART 213 TIER 1 RISK-BASED SCREENING LEVELS (RBSLs)**

Hazardous Substance	Chemical Abstract Service Number (CAS#)	Oral Reference Dose (RfD)	Oral Slope Factor (SF)	Chronic Inhalation Reference Concentration (RfC)	Inhalation Unit Risk Factor (IURF)	Occupational Short Term Exposure Level (STEL)	Relative Source Contribution for Drinking Water (RSC)	Ingestion Absorption Efficiency (AEI)	Dermal Absorption Efficiency (AE <sub>d</sub> )	Relative Source Contribution for Soil (RSC)	Log Octanol-Water Partition Coefficient (Log K <sub>ow</sub> )	Soil Organic Carbon-Water Partition Coefficients for Organic Compounds (K <sub>oc</sub> )
		mg/Kg-day	(mg/Kg-day) <sup>-1</sup>	ug/m <sup>3</sup>	(ug/m <sup>3</sup> ) <sup>-1</sup>	ug/m <sup>3</sup>	unitless	unitless	unitless	unitless	unitless	L/Kg
n-Propylbenzene (l)	103651	1.1E-2	NA	2.0E+1	NA	NA	0.2	1.0	0.1	1.0	3.69	4,240
Propylene glycol	57556	2.0E+1	NA	6.0E+3	NA	NA	0.2	1.0	0.1	1.0	-0.92	0.125
Pyrene	129000	7.5E-2	NA	1.0E+2	NA	NA	0.2	0.5	0.1	1.0	5.11	1.06E+5
Pyridine (l)	110861	1.0E-3	NA	3.5E+0	NA	NA	0.2	1.0	0.1	1.0	0.67	4.56
Selenium (B)	7782492	5.0E-3	NA	2.0E+0	NA	NA	0.2	0.5	0.01	1.0	NR	NR
Silver (B)	7440224	4.7E-3	NA	1.0E-1	NA	NA	0.2	0.5	0.01	1.0	NR	NR
Silvex (2,4,5-TP)	93721	7.5E-3	NA	NA	NA	NA	0.2	1.0	0.1	1.0	3.4	2,200
Simazine	122349	5.2E-3	NA	NA	NA	NA	0.2	1.0	0.1	1.0	1.93	79.0
Sodium	17341252	3.4E+1	NA	NA	NA	NA	0.1	0.5	0.01	1.0	NR	NR
Sodium azide	26628228	1.20E-02	NA	NA	NA	NA	0.2	1	0.1	1	NA	NA
Strontium (B)	7440246	6.3E-1	NA	NA	NA	NA	0.2	0.5	0.01	1.0	NR	NR
Styrene	100425	2.0E-1	1.3E-2	1.0E+3	5.7E-7	1.7E+5	0.2	1.0	0.1	1.0	2.94	777
Sulfate	14808798	NA	NA	NA	NA	NA	NA	0.5	0.1	1.0	NR	NR
Tebuthiuron	34014181	7.0E-2	NA	NA	NA	NA	0.2	1.0	0.1	1.0	1.78	56.2
2,3,7,8-Tetrabromodibenzo-p-dioxin (O)	50585416	NA	7.5E+4	NA	NA	NA	0.2	0.5	0.03	1.0	7.24	1.31E+7
1,2,4,5-Tetrachlorobenzene	95943	3.4E-1	NA	NA	NA	NA	0.2	1.0	0.1	1.0	4.64	36,400
2,3,7,8-Tetrachlorodibenzo-p-dioxin (O)	1746016	NA	7.5E+4	NA	4.4E+1	NA	0.2	0.5	0.03	1.0	7.04	8.33E+6
1,1,1,2-Tetrachloroethane	630206	8.9E-2	1.1E-2	NA	7.4E-6	NA	0.2	1.0	0.1	1.0	2.63	145
1,1,2,2-Tetrachloroethane	79345	NA	1.0E-1	NA	5.8E-5	NA	0.2	1.0	0.1	1.0	2.39	93.5
Tetrachloroethylene	127184	1.0E-2	2.6E-2	NA	5.8E-7	6.85E+5	0.2	1.0	0.1	1.0	2.67	156
Tetrahydrofuran	109999	1.3E-2	NA	5.9E+3	NA	7.37E+5	0.2	1.0	0.1	1.0	0.46	2.83
Tetranitromethane	509148	NA	NA	NA	1.5E-2	NA	0.2				-2.05	9.66E-3
Thallium (B)	7440280	6.7E-5	NA	NA	NA	NA	0.2	0.5	0.01	1.0	NR	NR
Toluene (l)	108883	2.2E-1	NA	4.0E+2	NA	NA	0.2	1.0	0.1	1.0	2.75	180
p-Toluidine	106490	NA	5.6E-2	NA	3.1E-5	NA	0.2	1.0	0.1	1.0	1.39	23.3
Toxaphene	8001352	NA	4.4E-1	NA	3.2E-4	1.0E+3	0.2	0.5	0.1	1.0	5.5	2.55E+5
Triallate	2303175	1.3E-2	NA	NA	NA	NA	0.2	1.0	0.1	1.0	4.57	31,100
Tributylamine	102829	3.5E-3	NA	7.0E+0	NA	NA	0.2	1.0	0.1	1.0	4.46	24,200
1,2,4-Trichlorobenzene	120821	1.5E-2	NA	3.7E+2	NA	3.7E+4	0.2	1.0	0.1	1.0	4.01	1,790
1,1,1-Trichloroethane	71556	2.2E+0	NA	1.0E+3	NA	2.46E+6	0.2	1.0	0.1	1.0	2.48	110
1,1,2-Trichloroethane	79005	3.9E-3	2.9E-2	NA	1.6E-5	NA	0.2	1.0	0.1	1.0	2.05	50.3
Trichloroethylene	79016	1.7E-3*	1.0E-2	NA	1.7E-6	5.37E+5	0.2	1.0	0.1	1.0	2.71	168
Trichlorofluoromethane	75694	3.5E-1	NA	5.62E+4	NA	5.62E+6	0.2	1.0	0.1	1.0	2.53	121
2,4,5-Trichlorophenol	95954	1.0E-1	NA	3.5E+2	NA	NA	0.2	1.0	0.1	1.0	3.9	1597



**TABLE 4. TOXICOLOGICAL AND CHEMICAL-PHYSICAL DATA FOR PART 201 GENERIC CLEANUP CRITERIA AND SCREENING LEVELS; PART 213 TIER 1 RISK-BASED SCREENING LEVELS (RBSLs)**

Hazardous Substance	Soil K <sub>oc</sub> for Ionizing Organic Compounds at pH=6.8	Soil-Water Distribution Coefficients for Inorganic Compounds at pH=6.8 (K <sub>d</sub> )	Henry's Law Constant at 25°C (HLC)	Air Diffusivity (D <sub>i</sub> or D <sub>a</sub> or D <sup>air</sup> )	Water Diffusivity (D <sub>w</sub> )	Lower Explosive Limit in Air (LEL)	Flash Point (FP)	Water Solubility (S)	Physical State at Standard Temperature & Pressure	Molecular Weight (MW)
	L/Kg	L/Kg	atm·m <sup>3</sup> /mol	cm <sup>2</sup> /s	cm <sup>2</sup> /s	unitless	°F	ug/L		g/mol
n-Propylbenzene (l)	NR	NR	NA	0.08	8.0E-6	NA	NA	NA	Liquid	120.19
Propylene glycol	NR	NR	1.24E-8	0.08	8.0E-6	NA	NA	1.0E+9	Liquid	76.1
Pyrene	NR	NR	1.10E-5	0.0272	7.24E-6	NA	NA	135	Solid	202.26
Pyridine (l)	NR	NR	7.00E-3	0.091	7.6E-6	0.018	68	3.00E+5	Liquid	79.11
Selenium (B)	NR	5	NR	NR	NR	NA	NA	NA	Inorganic	78.96
Silver (B)	NR	8.3	NR	NR	NR	NA	NA	NA	Inorganic	107.868
Silvex (2,4,5-TP)	NR	NR	1.30E-8	0.08	8.0E-6	NA	NA	1.40E+5	Solid	269.51
Simazine	NR	NR	3.37E-9	0.08	8.0E-6	NA	NA	4,470	Solid	201.67
Sodium	NR	NA	NR	NR	NR	NA	NA	NA	Inorganic	23
Sodium azide	NR	NA	NA	0.08	8.00E-06	NA	NA	NA	Solid	65.01
Strontium (B)	NR	NA	NR	NA	NA	NA	NA	NA	Inorganic	87.62
Styrene	NR	NR	2.75E-3	0.071	8.0E-6	0.009	88	3.10E+5	Liquid	104.15
Sulfate	NR	NA	NR	0.08	8.0E-6	NA	NA	NA	Inorganic	96.066
Tebuthiuron	NR	NR	2.40E-10	0.08	8.0E-6	NA	NA	2.50E+6	Solid	228.31
2,3,7,8-Tetrabromodibenzo-p-dioxin (O)	NR	NR	2.95E-7	0.08	8.0E-6	NA	NA	0.00996	Solid	499.6
1,2,4,5-Tetrachlorobenzene	NR	NR	1.20E-3	0.08	8.0E-6	NA	NA	1,300	Solid	215.28
2,3,7,8-Tetrachlorodibenzo-p-dioxin (O)	NR	NR	9.20E-6	0.047	8.0E-6	NA	NA	0.019	Solid	322
1,1,1,2-Tetrachloroethane	NR	NR	2.40E-3	0.071	7.9E-6	NA	NA	1.10E+6	Liquid	167.85
1,1,1,2-Tetrachloroethane	NR	NR	3.45E-4	0.071	7.9E-6	NA	NA	2.97E+6	Liquid	167.85
Tetrachloroethylene	NR	NR	1.84E-2	0.072	8.2E-6	NA	NA	2.0E+5	Liquid	165.83
Tetrahydrofuran	NR	NR	9.63E-3	0.08	8.0E-6	0.02	6.0	1.0E+9	Liquid	72.12
Tetranitromethane	NR	NR	2.6E-05	0.08	8.0E-6	NA	NA	85,000	Liquid	196.03
Thallium (B)	NR	71	NR	NR	NR	NA	NA	NA	Inorganic	204.383
Toluene (l)	NR	NR	6.64E-3	0.087	8.6E-6	0.011	40	5.26E+5	Liquid	92.14
p-Toluidine	NR	NR	6.10E-6	0.08	8.0E-6	NA	188	7.60E+6	Liquid	107.17
Toxaphene	NR	NR	6.00E-6	0.0116	4.34E-6	NA	NA	740	Solid	414
Triallate	NR	NR	1.93E-5	0.08	8.0E-6	NA	NA	4,000	Liquid	304.66
Tributylamine	NR	NR	5.60E-3	0.08	8.0E-6	NA	NA	75,400	Liquid	185.4
1,2,4-Trichlorobenzene	NR	NR	1.42E-3	0.03	8.23E-6	NA	222	3.00E+5	Liquid	181.45
1,1,1-Trichloroethane	NR	NR	1.72E-2	0.078	8.8E-6	0.075	NA	1.33E+6	Liquid	133.4
1,1,2-Trichloroethane	NR	NR	9.13E-4	0.078	8.8E-6	0.06	NA	4.42E+6	Liquid	133.4
Trichloroethylene	NR	NR	1.03E-2	0.079	9.1E-6	0.08	NA	1.10E+6	Liquid	131.39
Trichlorofluoromethane	NR	NR	1.3E-1	0.087	9.7E-6	NA	NA	1.10E+6	Liquid	137.38
2,4,5-Trichlorophenol	1,597	NR	4.33E-6	0.0291	7.03E-6	NA	NA	1.20E+6	Solid	197.5



**TABLE 4. TOXICOLOGICAL AND CHEMICAL-PHYSICAL DATA  
FOR PART 201 GENERIC CLEANUP CRITERIA AND SCREENING LEVELS;  
PART 213 TIER 1 RISK-BASED SCREENING LEVELS (RBSLs)**

Hazardous Substance	Chemical Abstract Service Number (CAS#)	Oral Reference Dose (RfD)	Oral Slope Factor (SF)	Chronic Inhalation Reference Concentration (RfC)	Inhalation Unit Risk Factor (IURF)	Occupational Short Term Exposure Level (STEL)	Relative Source Contribution for Drinking Water (RSC)	Ingestion Absorption Efficiency (AEI)	Dermal Absorption Efficiency (AE <sub>d</sub> )	Relative Source Contribution for Soil (RSC)	Log Octanol-Water Partition Coefficient (Log K <sub>ow</sub> )	Soil Organic Carbon-Water Partition Coefficients for Organic Compounds (K <sub>oc</sub> )
		mg/Kg-day	(mg/Kg-day) <sup>-1</sup>	ug/m <sup>3</sup>	(ug/m <sup>3</sup> ) <sup>-1</sup>	ug/m <sup>3</sup>	unitless	unitless	unitless	unitless	unitless	L/Kg
2,4,6-Trichlorophenol	88062	NA	7.4E-3	NA	3.1E-6	NA	0.2	1.0	0.1	1.0	3.7	381
1,2,3-Trichloropropane	96184	5.7E-3	NA	NA	NA	NA	0.2	1.0	0.1	1.0	2.26	167
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	2.7E+1	NA	7.67E+4	NA	9.59E+6	0.2	1.0	0.1	1.0	3.15	1,250
Triethanolamine	102716	5.0E-1	NA	5.0E+1	NA	NA	0.2	1.0	0.1	1.0	-1.38	0.0440
Triethylene glycol	112276	5.9E-1	NA	NA	NA	NA	0.2	1.0	0.1	1.0	-1.69	0.0218
3-Trifluoromethyl-4-nitrophenol	88302	6.2E-1	NA	NA	NA	NA	0.2	1.0	0.1	1.0	2.87	663
Trifluralin	1582098	5.1E-3	4.5E-3	NA	NA	NA	0.2	0.5	0.1	1.0	5.3	1.62E+5
2,2,4-Trimethyl pentane	540841	NA	NA	NA	NA	NA	0.2	1.0	0.1	1.0	4.09	2,080
2,4,4-Trimethyl-2-pentene (I)	107404	NA	NA	NA	NA	NA	0.2	1.0	0.1	1.0	4.0	1,760
1,2,4-Trimethylbenzene (I)	95636	1.4E-1	NA	1.23E+3	NA	NA	0.2	1.0	0.1	1.0	3.67	965
1,3,5-Trimethylbenzene (I)	108678	1.4E-1	NA	1.23E+3	NA	NA	0.2	1.0	0.1	1.0	3.5	708
Triphenyl phosphate	115866	1.6E-1	NA	NA	NA	NA	0.2	1.0	0.1	1.0	4.67	39,000
tris(2,3-Dibromopropyl)phosphate	126727	NA	1.2E+0	NA	5.3E-4	NA	0.2	1.0	0.1	1.0	3.51	2,820
Urea	57136	NA	NA	NA	NA	NA	0.2	1.0	0.1	1.0	-2.11	0.0256
Vanadium	7440622	5.0E-3	NA	NA	NA	NA	0.2	0.5	0.01	1.0	NR	NR
Vinyl acetate (I)	108054	8.8E-2	NA	2.0E+2	NA	5.3E+4	0.2	1.0	0.1	1.0	0.73	5.22
Vinyl chloride	75014	3.0E-3	1.4E+0*	100	8.8E-6*	NA	0.2	1.0	0.1	1.0	1.5	18.5
White phosphorus (R)	12185103	1.5E-5	NA	NA	NA	NA	0.2	0.5	0.01	1.0	NR	NR
Xylenes (I)	1330207	1.8E+0	NA	4.4E+3	NA	6.51E+5	0.2	1.0	0.1	1.0	3.11	348
Zinc (B)	7440666	3.3E-1	NA	NA	NA	NA	0.2	0.5	0.01	1.0	NR	NR



**TABLE 4. TOXICOLOGICAL AND CHEMICAL-PHYSICAL DATA  
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Hazardous Substance	Soil K <sub>oc</sub> for Ionizing Organic Compounds at pH=6.8	Soil-Water Distribution Coefficients for Inorganic Compounds at pH=6.8 (K <sub>d</sub> )	Henry's Law Constant at 25°C (HLC)	Air Diffusivity (D <sub>i</sub> or D <sub>a</sub> or D <sup>air</sup> )	Water Diffusivity (D <sub>w</sub> )	Lower Explosive Limit in Air (LEL)	Flash Point (FP)	Water Solubility (S)	Physical State at Standard Temperature & Pressure	Molecular Weight (MW)
	L/Kg	L/Kg	atm·m <sup>3</sup> /mol	cm <sup>2</sup> /s	cm <sup>2</sup> /s	unitless	°F	ug/L		g/mol
2,4,6-Trichlorophenol	381	NR	7.79E-6	0.0318	6.25E-6	NA	NA	8.00E+5	Solid	197.5
1,2,3-Trichloropropane	NR	NR	3.80E-4	0.071	7.9E-6	NA	160	1.90E+6	Liquid	147.43
1,1,2-Trichloro-1,2,2-trifluoroethane	NR	NR	5.3E-1	0.078	8.2E-6	NA	NA	1.70E+5	Liquid	187.38
Triethanolamine	NR	NR	3.38E-19	0.08	8.0E-6	NA	NA	1.0E+9	Liquid	149.19
Triethylene glycol	NR	NR	2.61E-10	0.0427	8.06E-6	NA	NA	1.00E+6	Liquid	150.17
3-Trifluoromethyl-4-nitrophenol	NR	NR	1.92E-8	0.08	8.0E-6	NA	NA	5.00E+6	Solid	207
Trifluralin	NR	NR	2.60E-5	0.08	8.0E-6	NA	NA	8,100	Solid	335.29
2,2,4-Trimethyl pentane	NR	NR	3.13E+0	0.08	8.0E-6	0.011	10	2,330	Liquid	114.23
2,4,4-Trimethyl-2-pentene (I)	NR	NR	8.81E-1	0.08	8.0E-6	NA	NA	11,900	Liquid	112.2
1,2,4-Trimethylbenzene (I)	NR	NR	5.87E-3	0.08	8.0E-6	0.009	112	55,890	Liquid	120.2
1,3,5-Trimethylbenzene (I)	NR	NR	7.38E-3	0.08	8.0E-6	NA	122	61,150	Liquid	120.2
Triphenyl phosphate	NR	NR	3.60E-7	0.08	8.0E-6	NA	NA	1,430	Liquid	326.3
tris(2,3-Dibromopropyl)phosphate	NR	NR	3.00E-5	0.08	8.0E-6	NA	NA	4,700	Liquid	697.67
Urea	NR	NR	NR	0.08	8.0E-6	NA	NA	NA	Solid	60.07
Vanadium	NR	1000	NR	NR	NR	NA	NA	NA	Inorganic	50.942
Vinyl acetate (I)	NR	NR	5.11E-4	0.085	9.2E-6	0.026	18	2.00E+7	Liquid	86.09
Vinyl chloride	NR	NR	2.70E-2	0.106	1.23E-5	0.036	NA	2.76E+6	Liquid	62.5
White phosphorus (R)	NR	NA	NR	NR	NR	NA	NA	NA	Inorganic	123.9
Xylenes (I)	NR	NR	6.04E-3	0.078	3.21E-5	NA	NA	1.86E+5	Liquid	106.17
Zinc (B)	NR	62	NR	NR	NR	NA	NA	NA	Inorganic	65.39

NA = Data are not available for this parameter.  
NR = Parameter is not relevant for this compound.