

Passive Recreation Direct Exposure Soil Criteria
1.14.2025

CASRN	Chemical Name	RfD (mg/kg/d)	Cancer Slope Factor (mg/kg/d) ⁻¹	Mutagen	Type of Chemical	NonCancer Risk Criteria (mg/kg)	Cancer Risk Criteria (mg/kg)	Selected Risk Criteria (mg/kg)	Risk Basis	Ceiling Value mg/kg	Analytical Level for Soil mg/kg	Passive Recreation Soil Direct Exposure Criteria mg/kg	Basis for Criteria
208968	Acenaphthylene	6.0E-02		No	Semivolatile Organic Substance	18,214.90		18,214.90	Noncancer	1,000	0.33	1,000	Ceiling Value
67641	Acetone	9.0E-01		No	Volatile Organic Substance	273,223.56		273,223.56	Noncancer	500	0.005	500	Ceiling Value
107131	Acrylonitrile	9.0E-05	0.54	Yes	Volatile Organic Substance	27.32	0.78	0.78	Mutagen	500	0.005	0.78	Risk based
15972608	Alachlor	5.0E-04		No	Pesticide	151.79		151.79	Noncancer	500	0.0017	152	Risk based
116063	Aldicarb	1.0E-03		No	Pesticide	303.58		303.58	Noncancer	500	0.0017	304	Risk based
120127	Anthracene	3.0E-01		No	Semivolatile Organic Substance	91,074.52		91,074.52	Noncancer	1,000	0.33	1,000	Ceiling Value
7440360	Antimony	2.0E-04		No	Inorganic Substance	60.72		60.72	Noncancer	50,000	0.05	61	Risk based
7440382	Arsenic	3.0E-04	1.5	Yes	Inorganic Substance	91.07	0.28	0.28	Mutagen	50,000	0.05	10	Current RSR Criteria
1912249	Atrazine	3.0E-04		No	Semivolatile Organic Substance	91.07		91.07	Noncancer	1,000	0.0017	91	Risk based
7440393	Barium	2.0E-01		No	Inorganic Substance	60,716.35		60,716.35	Noncancer	50,000	0.05	50,000	Ceiling Value
71432	Benzene	4.0E-03	0.055	Yes	Volatile Organic Substance	1,214.33	7.64	7.64	Mutagen	500	0.005	7.6	Risk based
56553	Benzo[a]anthracene	3.0E-02	0.1	Yes	Semivolatile Organic Substance	9,107.45	4.20	4.20	Mutagen	1,000	0.33	4.2	Risk based
50328	Benzo(a)pyrene	3.0E-04	1	Yes	Semivolatile Organic Substance	91.07	0.42	0.42	Mutagen	1,000	0.33	1.0	Current RSR Criteria
205992	Benzo(b)fluoranthene	3.0E-02	0.1	Yes	Semivolatile Organic Substance	9,107.45	4.20	4.20	Mutagen	1,000	0.33	4.2	Risk based
207089	Benzo(k)fluoranthene	3.0E-02	0.01	Yes	Semivolatile Organic Substance	9,107.45	42.00	42.00	Mutagen	1,000	0.33	42	Risk based
7440417	Beryllium	2.0E-04		No	Inorganic Substance	60.72		60.72	Noncancer	50,000	0.05	61	Risk based
111444	Bis(2-chloroethyl)ether [BCEE]		1.1	No	Semivolatile Organic Substance		1.95	1.95	Cancer	1,000	0.33	2.0	Risk based
108601	Bis(2-Chloroisopropyl)ether [BCMEE]	1.0E-02		No	Semivolatile Organic Substance	3,035.82		3,035.82	Noncancer	1,000	0.33	1,000	Ceiling Value
117817	Bis(2-ethylhexyl)phthalate [DEHP]	1.0E-04	0.014	No	Semivolatile Organic Substance	30.36	153.57	30.36	Noncancer	1,000	0.33	30	Risk based
75252	Bromoform	2.0E-02	0.0079	Yes	Volatile Organic Substance	6,071.63	53.16	53.16	Mutagen	500	0.005	53	Risk based
78933	Butanone, 2- [MEK]	6.0E-01		No	Volatile Organic Substance	182,149.04		182,149.04	Noncancer	500	0.005	500	Ceiling Value
85687	Benzyl butyl phthalate	5.0E-02		No	Semivolatile Organic Substance	15,179.09		15,179.09	Noncancer	1,000	0.33	1,000	Ceiling Value
7440439	Cadmium	1.0E-04		No	Inorganic Substance	30.36		30.36	Noncancer	50,000	0.05	30	Risk based
56235	Carbon Tetrachloride	4.0E-03	0.07	No	Volatile Organic Substance	1,214.33	30.71	30.71	Cancer	500	0.005	31	Risk based
12789036	Chlordane	5.0E-04	0.35	No	Pesticide	151.79	6.14	6.14	Cancer	500	0.0017	6.1	Risk based
108907	Chlorobenzene	2.0E-02		No	Volatile Organic Substance	6,071.63		6,071.63	Noncancer	500	0.005	500	Ceiling Value
67663	Chloroform	1.0E-02		No	Volatile Organic Substance	3,035.82		3,035.82	Noncancer	500	0.005	500	Ceiling Value
95578	Chlorophenol, 2-	5.0E-03		No	Semivolatile Organic Substance	1,517.91		1,517.91	Noncancer	1,000	0.33	1,000	Ceiling Value
18540299	Chromium, hexavalent	9.0E-04	0.5	Yes	Inorganic Substance	273.22	0.84	0.84	Mutagen	50,000	0.5	0.84	Risk based
16065831	Chromium, trivalent	1.5E+00		No	Inorganic Substance	455,372.60		455,372.60	Noncancer	50,000	0.05	50,000	Ceiling Value
7440508	Copper	3.0E-03		No	Inorganic Substance	910.75		910.75	Noncancer	50,000	0.05	911	Risk based
57125	Cyanide	6.3E-04		No	Inorganic Substance	191.26		191.26	Noncancer	50,000	1	191	Risk based
94757	Dichlorophenoxyacetic Acid, 2,4- [D, 2,4-]	1.0E-03		No	Pesticide	303.58		303.58	Noncancer	500	0.005	304	Risk based

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124481	Dibromochloromethane	2.0E-02	0.084	Yes	Volatile Organic Substance	6,071.63	5.00	5.00	Mutagen	500	0.005	5.0	Risk based
95501	Dichlorobenzene, 1,2-	9.0E-02		No	Volatile Organic Substance	27,322.36		27,322.36	Noncancer	500	0.005	500	Ceiling Value
541731	Dichlorobenzene, 1,3-	2.0E-03		No	Volatile Organic Substance	607.16		607.16	Noncancer	500	0.005	500	Ceiling Value
106467	Dichlorobenzene, 1,4-	7.0E-02	0.0054	No	Volatile Organic Substance	21,250.72	398.15	398.15	Cancer	500	0.005	398	Risk based
75343	Dichloroethane, 1,1-	2.0E-01		No	Volatile Organic Substance	60,716.35		60,716.35	Noncancer	500	0.005	500	Ceiling Value
107062	Dichloroethane, 1,2-	2.0E-02	0.091	Yes	Volatile Organic Substance	6,071.63	4.62	4.62	Mutagen	500	0.005	4.6	Risk based
75354	Dichloroethylene, 1,1-	5.0E-03		No	Volatile Organic Substance	1,517.91		1,517.91	Noncancer	500	0.005	500	Ceiling Value
156592	Dichloroethylene, cis-1,2-	2.0E-03		No	Volatile Organic Substance	607.16		607.16	Noncancer	500	0.005	500	Ceiling Value
156605	Dichloroethylene, trans-1,2-	2.0E-02		No	Volatile Organic Substance	6,071.63		6,071.63	Noncancer	500	0.005	500	Ceiling Value
120832	Dichlorophenol, 2,4-	3.0E-03		No	Semivolatile Organic Substance	910.75		910.75	Noncancer	1,000	0.33	911	Risk based
78875	Dichloropropane, 1,2-	2.0E-02	0.036	No	Volatile Organic Substance	6,071.63	59.72	59.72	Cancer	500	0.005	60	Risk based
542756	Dichloropropene, 1,3-	3.0E-02	0.1	Yes	Volatile Organic Substance	9,107.45	4.20	4.20	Mutagen	500	0.005	4.2	Risk based
60571	Dieldrin	5.0E-05	16	No	Pesticide	15.18	0.13	0.13	Cancer	500	0.0017	0.13	Risk based
84742	Di-n-butyl phthalate	1.5E-03		No	Semivolatile Organic Substance	455.37		455.37	Noncancer	1,000	0.33	455	Risk based
117840	Di-n-octyl phthalate	1.0E-02		No	Semivolatile Organic Substance	3,035.82		3,035.82	Noncancer	1,000	0.33	1,000	Ceiling Value
72208	Endrin	3.0E-04		No	Pesticide	91.07		91.07	Noncancer	500	0.0017	91	Risk based
100414	Ethylbenzene	1.0E-01	0.011	No	Volatile Organic Substance	30,358.17	195.45	195.45	Cancer	500	0.005	195	Risk based
106934	Ethylene dibromide	9.0E-03	2	Yes	Volatile Organic Substance	2,732.24	0.21	0.21	Mutagen	500	0.005	0.21	Risk based
206440	Fluoranthene	4.0E-02		No	Semivolatile Organic Substance	12,143.27		12,143.27	Noncancer	1,000	0.33	1,000	Ceiling Value
86737	Fluorene	4.0E-02		No	Semivolatile Organic Substance	12,143.27		12,143.27	Noncancer	1,000	0.33	1,000	Ceiling Value
76448	Heptachlor	5.0E-04	4.5	No	Pesticide	151.79	0.48	0.48	Cancer	500	0.0017	0.48	Risk based
1024573	Heptachlor epoxide	1.3E-05	9.1	No	Pesticide	3.95	0.24	0.24	Cancer	500	0.0017	0.24	Risk based
118741	Hexachlorobenzene	3.0E-06	1.6	No	Semivolatile Organic Substance	0.91	1.34	0.91	Noncancer	1,000	0.33	0.91	Risk based
67721	Hexachloroethane	7.0E-04	0.04	No	Semivolatile Organic Substance	212.51	53.75	53.75	Cancer	1,000	0.33	54	Risk based
7439921	Lead			No	Inorganic Substance					50,000	0.05	400	Current RSR Criteria
58899	Lindane	8.0E-07	1.1	No	Pesticide	0.24	1.95	0.24	Noncancer	500	0.0017	0.24	Risk based
7487947	Mercury - inorganic	3.0E-04		No	Inorganic Substance	91.07		91.07	Noncancer	50,000	0.1	91	Risk based
72435	Methoxychlor	2.0E-03		No	Pesticide	607.16		607.16	Noncancer	500	0.0017	500	Ceiling Value
108101	Methyl isobutyl ketone	8.6E-02		No	Volatile Organic Substance	26,108.03		26,108.03	Noncancer	500	0.005	500	Ceiling Value
1634044	Methyl tert butyl ether	1.0E-02		No	Volatile Organic Substance	3,035.82		3,035.82	Noncancer	500	0.005	500	Ceiling Value
75092	Methylene chloride	6.0E-03	0.002	Yes	Volatile Organic Substance	1,821.49	210.00	210.00	Mutagen	500	0.005	210	Risk based
91203	Naphthalene	2.0E-02		No	Semivolatile Organic Substance	6,071.63		6,071.63	Noncancer	1,000	0.33	1,000	Ceiling Value
7440020	Nickel	2.0E-03		No	Inorganic Substance	607.16		607.16	Noncancer	50,000	0.05	607	Risk based
87865	Pentachlorophenol	5.0E-03	0.4	Yes	Semivolatile Organic Substance	1,517.91	1.05	1.05	Mutagen	1,000	0.33	1.1	Risk based
85018	Phenanthrene	3.0E-02		No	Semivolatile Organic Substance	9,107.45		9,107.45	Noncancer	1,000	0.33	1,000	Ceiling Value
108952	Phenol	3.0E-02		Yes	Semivolatile Organic Substance	9,107.45		9,107.45	Noncancer	1,000	0.33	1,000	Ceiling Value

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1336363	Polychlorinated biphenyls	2.0E-05	2	No	PCB	6.07	1.08	1.08	Cancer	500	0.05	1.1	Risk based
129000	Pyrene	3.0E-02		No	Semivolatile Organic Substance	9,107.45		9,107.45	Noncancer	1,000	0.33	1,000	Ceiling Value
7782492	Selenium	5.0E-03		No	Inorganic Substance	1,517.91		1,517.91	Noncancer	50,000	0.05	1,518	Risk based
7440224	Silver	5.0E-03		No	Inorganic Substance	1,517.91		1,517.91	Noncancer	50,000	0.05	1,518	Risk based
	Styrene	7.0E-02		Yes	Volatile Organic Substance	21,250.72		21,250.72	Noncancer	500	0.005	500	Ceiling Value
100425	Tetrachloroethane, 1,1,1,2-	3.0E-02	0.026	Yes	Volatile Organic Substance	9,107.45	16.15	16.15	Mutagen	500	0.005	16	Risk based
630206	Tetrachloroethane, 1,1,2,2-	2.0E-02	0.2	Yes	Volatile Organic Substance	6,071.63	2.10	2.10	Mutagen	500	0.005	2.1	Risk based
79345	Tetrachloroethylene	6.0E-03	0.0021	No	Volatile Organic Substance	1,821.49	1,023.81	1,023.81	Cancer	500	0.005	500	Ceiling Value
127184	Thallium	1.0E-05		No	Inorganic Substance	3.04		3.04	Noncancer	50,000	0.05	3.0	Risk based
7791120	Toluene	2.0E-02		No	Volatile Organic Substance	6,071.63		6,071.63	Noncancer	500	0.005	500	Ceiling Value
108883	Toxaphene	2.0E-04	1.1	Yes	Pesticide	60.72	0.38	0.38	Mutagen	500	0.0017	0.38	Risk based
8001352	Trichloroethane, 1,1,1-	7.6E-03		No	Volatile Organic Substance	2,307.22		2,307.22	Noncancer	500	0.005	500	Ceiling Value
71556	Trichloroethane, 1,1,2-	4.0E-03	0.057	No	Volatile Organic Substance	1,214.33	37.72	37.72	Cancer	500	0.005	38	Risk based
79005	Trichloroethylene (Kidney)	5.0E-04	0.0093	Yes	Volatile Organic Substance								
79016	Trichloroethylene (NHL + Liver)	5.0E-04	0.037	No	Volatile Organic Substance								
79016	Trichloroethylene	5.0E-04		Yes	Volatile Organic Substance	151.79	25.55	25.55	Mutagen & Cancer	500	0.005	26	Risk based
79016	Vanadium	9.0E-04		No	Inorganic Substance	273.22		273.22	Noncancer	50,000	0.05	273	Risk based
1314621	Vinyl chloride	3.0E-03	0.72	Yes	Volatile Organic Substance	910.75	0.58	0.58	Mutagen	500	0.005	0.58	Risk based
75014	Xylenes	2.0E-01		No	Volatile Organic Substance	60,716.35		60,716.35	Noncancer	500	0.005	500	Ceiling Value
1330207	Zinc	3.0E-01		No	Inorganic Substance	91,074.52		91,074.52	Noncancer	50,000	0.05	50,000	Ceiling Value
7440666	Extractable TPH by ETPH Analysis										100	500	Current RSR Criteria