

Managed Multifamily Direct Exposure Soil Criteria  
1.14.2025

CASRN	Chemical Name	RfD (mg/kg/d)	Cancer Slope Factor (mg/kg/d) <sup>-1</sup>	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	Managed Multifamily Soil Direct Exposure Criteria (mg/kg)	Basis for Criteria
208968	Acenaphthylene	6.0E-02		No	Semivolatile Organic Substance	10,380.00		10,380.00	Noncancer	1,000	0.33	1,000	Ceiling Value
67641	Acetone	9.0E-01		No	Volatile Organic Substance	155,700.00		155,700.00	Noncancer	500	0.005	500	Ceiling Value
107131	Acrylonitrile	9.0E-05	0.54	Yes	Volatile Organic Substance	15.57	0.46	0.46	Mutagen	500	0.005	0.46	Risk based
15972608	Alachlor	5.0E-04		No	Pesticide	86.50		86.50	Noncancer	500	0.0017	87	Risk based
116063	Aldicarb	1.0E-03		No	Pesticide	173.00		173.00	Noncancer	500	0.0017	173	Risk based
120127	Anthracene	3.0E-01		No	Semivolatile Organic Substance	51,900.00		51,900.00	Noncancer	1,000	0.33	1,000	Ceiling Value
7440360	Antimony	2.0E-04		No	Inorganic Substance	34.60		34.60	Noncancer	50,000	0.05	35	Risk based
7440382	Arsenic	3.0E-04	1.5E+00	Yes	Inorganic Substance	51.90	0.17	0.17	Mutagen	50,000	0.05	10	Current RSR Criteria
1912249	Atrazine	3.0E-04		No	Semivolatile Organic Substance	51.90		51.90	Noncancer	1,000	0.0017	52	Risk based
7440393	Barium	2.0E-01		No	Inorganic Substance	34,600.00		34,600.00	Noncancer	50,000	0.05	34,600	Risk based
71432	Benzene	4.0E-03	5.5E-02	Yes	Volatile Organic Substance	692.00	4.55	4.55	Mutagen	500	0.005	4.5	Risk based
56553	Benzo[a]anthracene	3.0E-02	1.0E-01	Yes	Semivolatile Organic Substance	5,190.00	2.50	2.50	Mutagen	1,000	0.33	2.5	Risk based
50328	Benzo(a)pyrene	3.0E-04	1.0E+00	Yes	Semivolatile Organic Substance	51.90	0.25	0.25	Mutagen	1,000	0.33	1.0	Current RSR Criteria
205992	Benzo(b)fluoranthene	3.0E-02	1.0E-01	Yes	Semivolatile Organic Substance	5,190.00	2.50	2.50	Mutagen	1,000	0.33	2.5	Risk based
207089	Benzo(k)fluoranthene	3.0E-02	1.0E-02	Yes	Semivolatile Organic Substance	5,190.00	25.00	25.00	Mutagen	1,000	0.33	25	Risk based
7440417	Beryllium	2.0E-04		No	Inorganic Substance	34.60		34.60	Noncancer	50,000	0.05	35	Risk based
111444	Bis(2-chloroethyl)ether [BCEE]		1.1E+00	No	Semivolatile Organic Substance		1.28	1.28	Cancer	1,000	0.33	1.3	Risk based
108601	Bis(2-Chloroisopropyl)ether [BCMEE]	1.0E-02		No	Semivolatile Organic Substance	1,730.00		1,730.00	Noncancer	1,000	0.33	1,000	Ceiling Value
117817	Bis(2-ethylhexyl)phthalate [DEHP]	1.0E-04	1.4E-02	No	Semivolatile Organic Substance	17.30	100.71	17.30	Noncancer	1,000	0.33	17	Risk based
75252	Bromoform	2.0E-02	7.9E-03	Yes	Volatile Organic Substance	3,460.00	31.65	31.65	Mutagen	500	0.005	32	Risk based
78933	Butanone, 2- [MEK]	6.0E-01		No	Volatile Organic Substance	103,800.00		103,800.00	Noncancer	500	0.005	500	Ceiling Value
85687	Benzyl butyl phthalate	5.0E-02		No	Semivolatile Organic Substance	8,650.00		8,650.00	Noncancer	1,000	0.33	1,000	Ceiling Value
7440439	Cadmium	1.0E-04		No	Inorganic Substance	17.30		17.30	Noncancer	50,000	0.05	17	Risk based
56235	Carbon Tetrachloride	4.0E-03	7.0E-02	No	Volatile Organic Substance	692.00	20.14	20.14	Cancer	500	0.005	20	Risk based
12789036	Chlordane	5.0E-04	3.5E-01	No	Pesticide	86.50	4.03	4.03	Cancer	500	0.0017	4.0	Risk based
108907	Chlorobenzene	2.0E-02		No	Volatile Organic Substance	3,460.00		3,460.00	Noncancer	500	0.005	500	Ceiling Value
67663	Chloroform	1.0E-02		No	Volatile Organic Substance	1,730.00		1,730.00	Noncancer	500	0.005	500	Ceiling Value
95578	Chlorophenol, 2-	5.0E-03		No	Semivolatile Organic Substance	865.00		865.00	Noncancer	1,000	0.33	865	Risk based
18540299	Chromium, hexavalent	9.0E-04	5.0E-01	Yes	Inorganic Substance	155.70	0.50	0.50	Mutagen	50,000	0.5	0.50	Risk based
16065831	Chromium, trivalent	1.5E+00		No	Inorganic Substance	259,500.00		259,500.00	Noncancer	50,000	0.05	50,000	Ceiling Value
7440508	Copper	3.0E-03		No	Inorganic Substance	519.00		519.00	Noncancer	50,000	0.05	519	Risk based
57125	Cyanide	6.3E-04		No	Inorganic Substance	108.99		108.99	Noncancer	50,000	1	109	Risk based
94757	Dichlorophenoxyacetic Acid, 2,4-[D, 2,4-]	1.0E-03		No	Pesticide	173.00		173.00	Noncancer	500	0.005	173	Risk based

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124481	Dibromochloromethane	2.0E-02	8.4E-02	Yes	Volatile Organic Substance	3,460.00	2.98	2.98	Mutagen	500	0.005	3.0	Risk based
95501	Dichlorobenzene, 1,2-	9.0E-02		No	Volatile Organic Substance	15,570.00		15,570.00	Noncancer	500	0.005	500	Ceiling Value
541731	Dichlorobenzene, 1,3-	2.0E-03		No	Volatile Organic Substance	346.00		346.00	Noncancer	500	0.005	346	Risk based
106467	Dichlorobenzene, 1,4-	7.0E-02	5.4E-03	No	Volatile Organic Substance	12,110.00	261.11	261.11	Cancer	500	0.005	261	Risk based
75343	Dichloroethane, 1,1-	2.0E-01		No	Volatile Organic Substance	34,600.00		34,600.00	Noncancer	500	0.005	500	Ceiling Value
107062	Dichloroethane, 1,2-	2.0E-02	9.1E-02	Yes	Volatile Organic Substance	3,460.00	2.75	2.75	Mutagen	500	0.005	2.7	Risk based
75354	Dichloroethylene, 1,1-	5.0E-03		No	Volatile Organic Substance	865.00		865.00	Noncancer	500	0.005	500	Ceiling Value
156592	Dichloroethylene, cis-1,2-	2.0E-03		No	Volatile Organic Substance	346.00		346.00	Noncancer	500	0.005	346	Risk based
156605	Dichloroethylene, trans-1,2-	2.0E-02		No	Volatile Organic Substance	3,460.00		3,460.00	Noncancer	500	0.005	500	Ceiling Value
120832	Dichlorophenol, 2,4-	3.0E-03		No	Semivolatile Organic Substance	519.00		519.00	Noncancer	1,000	0.33	519	Risk based
78875	Dichloropropane, 1,2-	2.0E-02	3.6E-02	No	Volatile Organic Substance	3,460.00	39.17	39.17	Cancer	500	0.005	39	Risk based
542756	Dichloropropene, 1,3-	3.0E-02	1.0E-01	Yes	Volatile Organic Substance	5,190.00	2.50	2.50	Mutagen	500	0.005	2.5	Risk based
60571	Dieldrin	5.0E-05	1.6E+01	No	Pesticide	8.65	0.09	0.09	Cancer	500	0.0017	0.09	Risk based
84742	Di-n-butyl phthalate	1.5E-03		No	Semivolatile Organic Substance	259.50		259.50	Noncancer	1,000	0.33	260	Risk based
117840	Di-n-octyl phthalate	1.0E-02		No	Semivolatile Organic Substance	1,730.00		1,730.00	Noncancer	1,000	0.33	1,000	Ceiling Value
72208	Endrin	3.0E-04		No	Pesticide	51.90		51.90	Noncancer	500	0.0017	52	Risk based
100414	Ethylbenzene	1.0E-01	1.1E-02	No	Volatile Organic Substance	17,300.00	128.18	128.18	Cancer	500	0.005	128	Risk based
106934	Ethylene dibromide	9.0E-03	2.0E+00	Yes	Volatile Organic Substance	1,557.00	0.13	0.13	Mutagen	500	0.005	0.13	Risk based
206440	Fluoranthene	4.0E-02		No	Semivolatile Organic Substance	6,920.00		6,920.00	Noncancer	1,000	0.33	1,000	Ceiling Value
86737	Fluorene	4.0E-02		No	Semivolatile Organic Substance	6,920.00		6,920.00	Noncancer	1,000	0.33	1,000	Ceiling Value
76448	Heptachlor	5.0E-04	4.5E+00	No	Pesticide	86.50	0.31	0.31	Cancer	500	0.0017	0.31	Risk based
1024573	Heptachlor epoxide	1.3E-05	9.1E+00	No	Pesticide	2.25	0.15	0.15	Cancer	500	0.0017	0.15	Risk based
118741	Hexachlorobenzene	3.0E-06	1.6E+00	No	Semivolatile Organic Substance	0.52	0.88	0.52	Noncancer	1,000	0.33	0.52	Risk based
67721	Hexachloroethane	7.0E-04	4.0E-02	No	Semivolatile Organic Substance	121.10	35.25	35.25	Cancer	1,000	0.33	35	Risk based
7439921	Lead			No	Inorganic Substance					50,000	0.05	400	Current RSR Criteria
58899	Lindane	8.0E-07	1.1	No	Pesticide	0.14	1.28	0.14	Noncancer	500	0.0017	0.14	Risk based
7487947	Mercury	3.0E-04		No	Inorganic Substance	51.90		51.90	Noncancer	50,000	0.1	52	Risk based
72435	Methoxychlor	2.0E-03		No	Pesticide	346.00		346.00	Noncancer	500	0.0017	346	Risk based
108101	Methyl isobutyl ketone	8.6E-02		No	Volatile Organic Substance	14,878.00		14,878.00	Noncancer	500	0.005	500	Ceiling Value
1634044	Methyl tert butyl ether	1.0E-02		No	Volatile Organic Substance	1,730.00		1,730.00	Noncancer	500	0.005	500	Ceiling Value
75092	Methylene chloride	6.0E-03	2.0E-03	Yes	Volatile Organic Substance	1,038.00	125.00	125.00	Mutagen	500	0.005	125	Risk based
91203	Naphthalene	2.0E-02		No	Semivolatile Organic Substance	3,460.00		3,460.00	Noncancer	1,000	0.33	1,000	Ceiling Value
7440020	Nickel	2.0E-03		No	Inorganic Substance	346.00		346.00	Noncancer	50,000	0.05	346	Risk based
87865	Pentachlorophenol	5.0E-03	4.0E-01	Yes	Semivolatile Organic Substance	865.00	0.63	0.63	Mutagen	1,000	0.33	0.63	Risk based
85018	Phenanthrene	3.0E-02		No	Semivolatile Organic Substance	5,190.00		5,190.00	Noncancer	1,000	0.33	1,000	Ceiling Value
108952	Phenol	3.0E-02		Yes	Semivolatile Organic Substance	5,190.00		5,190.00	Noncancer	1,000	0.33	1,000	Ceiling Value

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1336363	Polychlorinated biphenyls	2.0E-05	2	No	PCB	3.46	0.71	0.71	Cancer	500	0.05	1.0	Current RSR Criteria
129000	Pyrene	3.0E-02		No	Semivolatile Organic Substance	5,190.00		5,190.00	Noncancer	1,000	0.33	1,000	Ceiling Value
7782492	Selenium	5.0E-03		No	Inorganic Substance	865.00		865.00	Noncancer	50,000	0.05	865	Risk based
7440224	Silver	5.0E-03		No	Inorganic Substance	865.00		865.00	Noncancer	50,000	0.05	865	Risk based
100425	Styrene	7.0E-02		Yes	Volatile Organic Substance	12,110.00		12,110.00	Noncancer	500	0.005	500	Ceiling Value
630206	Tetrachloroethane, 1,1,1,2-	3.0E-02	2.6E-02	Yes	Volatile Organic Substance	5,190.00	9.62	9.62	Mutagen	500	0.005	9.6	Risk based
79345	Tetrachloroethane, 1,1,2,2-	2.0E-02	2.0E-01	Yes	Volatile Organic Substance	3,460.00	1.25	1.25	Mutagen	500	0.005	1.3	Risk based
127184	Tetrachloroethylene	6.0E-03	2.1E-03	No	Volatile Organic Substance	1,038.00	671.43	671.43	Cancer	500	0.005	500	Ceiling Value
7791120	Thallium	1.0E-05		No	Inorganic Substance	1.73		1.73	Noncancer	50,000	0.05	1.7	Risk based
108883	Toluene	2.0E-02		No	Volatile Organic Substance	3,460.00		3,460.00	Noncancer	500	0.005	500	Ceiling Value
8001352	Toxaphene	2.0E-04	1.1	Yes	Pesticide	34.60	0.23	0.23	Mutagen	500	0.0017	0.23	Risk based
71556	Trichloroethane, 1,1,1-	7.6E-03		No	Volatile Organic Substance	1,314.80		1,314.80	Noncancer	500	0.005	500	Ceiling Value
79005	Trichloroethane, 1,1,2-	4.0E-03	5.7E-02	No	Volatile Organic Substance	692.00	24.74	24.74	Cancer	500	0.005	25	Risk based
79016	Trichloroethylene (Kidney)	5.0E-04	9.30E-03	Yes	Volatile Organic Substance								
79016	Trichloroethylene (NHL + Liver)	5.0E-04	3.70E-02	No	Volatile Organic Substance								
79016	Trichloroethylene	5.0E-04		Yes	Volatile Organic Substance	86.50	15.59	15.59	Mutagen & Cancer	500	0.005	16	Risk based
1314621	Vanadium	9.0E-04		No	Inorganic Substance	155.70		155.70	Noncancer	50,000	0.05	156	Risk based
75014	Vinyl chloride	3.0E-03	0.72	Yes	Volatile Organic Substance	519.00	0.35	0.35	Mutagen	500	0.005	0.35	Risk based
1330207	Xylenes	2.0E-01		No	Volatile Organic Substance	34,600.00		34,600.00	Noncancer	500	0.005	500	Ceiling Value
7440666	Zinc	3.0E-01		No	Inorganic Substance	51,900.00		51,900.00	Noncancer	50,000	0.05	50,000	Ceiling Value
	Extractable TPH by ETPH Analysis										100	500	Current RSR Criteria