

Media-Specific Volatilization to Indoor Air Interim Action Screening Levels

August 2017

CAS #	Hazardous Substance	INDOOR AIR					SOIL VAPOR (INCLUDING SUBSLAB)				
		RES		NONRES			RES		NONRES		
		RIASL µg/m ³	TSRIASL µg/m ³	RIASL µg/m ³	RIASL _{1,2} µg/m ³	TSRIASL _{1,2} µg/m ³	RIASL µg/m ³	TS RIASL µg/m ³	RIASL µg/m ³	RIASL _{1,2} µg/m ³	TSRIASL _{1,2} µg/m ³
67641	Acetone	31,000	31,000	31,000	31,000	31,000	1.0E+06	1.0E+06	1.0E+06	1.0E+06	1.0E+06
7664417	Ammonia	520	1,200	1,200	1,200	1,200	17,000	40,000	40,000	40,000	40,000
71432	Benzene	3.3	19.0	7.7	15	54	110	630	260	510	1,800
57749	Chlordane	0.20	0.20	0.28	0.56	0.56	6.7	6.7	9.3	19	19
108907	Chlorobenzene	52	160	77	150	460	1,700	5,200	2,600	5,100	15,000
75003	Chloroethane	4,200	13,000	6,100	12,000	36,000	1.4E+05	4.2E+05	2.0E+05	4.1E+05	1.2E+06
67663	Chloroform	1.1	11	2.6	5.2	52	37	370	87	170	1,700
74873	Chloromethane	94	280	140	280	410	3,100	9,400	4,600	9,200	14,000
541731	1,3-Dichlorobenzene	3.1	9.3	4.6	9.2	28	100	310	150	310	920
106467	1,4-Dichlorobenzene	6.5	65	15	30	300	220	2,200	510	1,000	10,000
75343	1,1-Dichloroethane	16	160	37	74	740	530	5,300	1,200	2,500	25,000
75354	1,1-Dichloroethylene	210	630	310	620	1,900	7,000	21,000	10,000	20,000	61,000
156592	cis-1,2-Dichloroethylene	8.3	25	12	24	72	280	830	410	820	2,500
156605	trans-1,2-Dichloroethylene	270	790	790	790	790	9,000	26,000	26,000	26,000	26,000
64175	Ethanol	19,000	19,000	19,000	19,000	19,000	6.3E+05	6.3E+05	6.3E+05	6.3E+05	6.3E+05
100414	Ethylbenzene	10	100	24	48	480	340	3,400	800	1,600	16,000
110543	n-Hexane	730	2,200	1,100	2,200	6,600	24,000	73,000	36,000	72,000	2.1E+05
Varies	Mercury (total)	0.31	0.93	0.46	0.92	2.8	10	31	15	31	92
1634044	Methyl-tert-butyl ether (MTBE)	98	980	230	460	4600	3300	33,000	7700	15,000	1.5E+05

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		RES		NONRES			RES		NONRES		
		RIASL ₃ μg/m ³	TSRIASL ₃ μg/m ³	RIASL ₃ μg/m ³	RIASL ₁₂ μg/m ³	TSRIASL ₁₂ μg/m ³	RIASL ₃ μg/m ³	TSRIASL ₃ μg/m ³	RIASL ₃ μg/m ³	RIASL ₁₂ μg/m ³	TSRIASL ₁₂ μg/m ³
75092	Methylene chloride	630	1,000	920	1,800	2,900	21,000	33,000	31,000	61,000	97,000
127184	Tetrachloroethylene	41	41	41	82	82	1,400	1,400	1,400	2,700	2,700
108883	Toluene	5,200	7,500	7,500	7,500	7,500	1.7E+05	2.5E+05	2.5E+05	2.5E+05	2.5E+05
120821	1,2,4-Trichlorobenzene	2.1	6.3	3.1	6.2	19	70	210	100	200	610
71556	1,1,1-Trichloroethane	5,000	5,000	7,000	7,000	7,000	1.7E+05	1.7E+05	2.3E+05	2.3E+05	2.3E+05
79016	Trichloroethylene	2.0	6.0	2.0	4.0	12	67	200	67	130	400
526738	1,2,3-Trimethylbenzene	63	190	92	180	560	2,100	6,300	3,100	6,100	18,000
95636	1,2,4-Trimethylbenzene	63	190	92	180	560	2,100	6,300	3,100	6,100	18,000
108678	1,3,5-Trimethylbenzene	63	190	92	180	560	2,100	6,300	3,100	6,100	18,000
108054	Vinyl acetate	210	630	310	620	1,900	7,000	21,000	10,000	20,000	61,000
75014	Vinyl chloride	1.6	16	14	28	280	54	540	450	910	9,100
1330207	Xylenes	230	690	340	680	2,000	7,600	23,000	11,000	22,000	67,000

Footnote **RIASL**: Recommended Interim Action Screening Levels. Nonresidential RIASL for soil vapor, soil, shallow groundwater, and groundwater is based on a former residential structure that is now nonresidential use that has an unoccupied basement.

Footnote **RIASL₁₂**: Nonresidential Recommended Interim Action Screening Levels appropriate for exposures less than 12 hours.

Footnote **TSRIASL**: Time-Sensitive Recommended Interim Action Screening Levels.

Footnote **TSRIASL₁₂**: Time-Sensitive Recommended Interim Action Screening Levels appropriate for exposures less than 12 hours for structures that were not formerly residential houses. It may be appropriate to take expedited response actions at former residential structures when concentrations are less than those identified.

Footnote **GW**: The calculated value for a hazardous substance based upon shallow groundwater is considered protective when it is greater than the calculated value for groundwater.

Footnote **M**: Site-specific criterion may be below target detection limits (TDL).

Footnote **S**: Calculated health-based value exceeds the hazardous substance-specific water solubility limit; therefore, the water solubility limit is the criterion.

Media-Specific Volatilization to Indoor Air Interim Action Screening Levels

August 2017

CAS #	Hazardous Substance	SOIL		SHALLOW GROUNDWATER		GROUNDWATER				
		RES	NONRES	RES	NONRES	RES		NONRES		
		RIASL µg/kg	RIASL µg/kg	RIASL µg/l	RIASL µg/l	RIASL µg/l	TSRIASL µg/l	RIASL µg/l	RIASL _{1,2} µg/l	TSRIASL _{1,2} µg/l
67641	Acetone	2.6E+05	7.8E+05	50,000	62,000	1.2E+07	1.2E+07	4.7E+07	4.7E+07	1.6E+08
7664417	Ammonia	NA	NA	1,900	2,200	2.5E+05	5.7E+05	2.3E+06	2.3E+06	8.9E+06
71432	Benzene	1.7 (M)	12 (M)	1.0	3.0	14	82	120	230	2,600
57749	Chlordane	13,000	55,000	18	26	56 (S)	56 (S)	56 (S)	56 (S)	56 (S)
108907	Chlorobenzene	82	360	33	54	540	1,600	2,700	5,400	50,000
75003	Chloroethane	330	1,500	620	1,300	6,700	20,000	35,000	69,000	6.7E+05
67663	Chloroform	0.26 (M)	1.9 (M)	0.49 (M)	1.3	7.6	76	61	120	3,800
74873	Chloromethane	6.9 (M)	31 (M)	15	30	160	470	810	1,600	8,000
541731	1,3-Dichlorobenzene	10 (M)	45 (M)	2.6	4.2	52	150	250	510	4,600
106467	1,4-Dichlorobenzene	23 (M)	160	5.9	15	120	1,200	930	1,900	57,000
75343	1,1-Dichloroethane	2.6 (M)	19 (M)	4.7	14	67	670	540	1,100	34,000
75354	1,1-Dichloroethylene	12 (M)	54	18	45	170	510	860	1,700	16,000
156592	cis-1,2-Dichloroethylene	2.1 (M)	9.2 (M)	3.4	5.8	48	140	240	490	4,600
156605	trans-1,2-Dichloroethylene	39 (M)	340	27	78	650	1,900	6,500	6,500	21,000
64175	Ethanol	1.3E+06	4.0E+06	1.0E+05	1.2E+05	5.0E+07	5.0E+07	2.0E+08	2.0E+08	7.7E+08
100414	Ethylbenzene	12 (M)	86	2.8	8.5	45	450	360	710	22,000
110543	n-Hexane	25	110	29	130	29 (GW)	33	130 (GW)	130 (GW)	6,000 (GW)
Varies	Mercury (total)	2.7E-02	0.12	8.8E-02	0.14	1.4	4.3	7.2	14	60 (S)
1634044	Methyl-tert-butyl ether (MTBE)	74 (M)	520	2.5E+02	610	4,000	40,000	32,000	65,000	2.0E+06

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August 2017

CAS #	Hazardous Substance	SOIL		SHALLOW GROUNDWATER		GROUNDWATER				
		RES	NONRES	RES	NONRES	RES		NONRES		
		RIASL µg/kg	RIASL µg/kg	RIASL µg/l	RIASL µg/l	RIASL µg/l	TSRIASL µg/l	RIASL µg/l	RIASL ₁₂ µg/l	TSRIASL ₁₂ µg/l
75092	Methylene chloride	130	570	79	490	3,900	6,200	20,000	40,000	2.0E+05
127184	Tetrachloroethylene	6.2 (M)	19 (M)	1.5	4.4	96	96	320	640	1,900
108883	Toluene	3,700	16,000	300	850	23,000	33,000	1.1E+05	1.1E+05	3.5E+05
120821	1,2,4-Trichlorobenzene	53 (M)	230 (M)	3.8 (M)	5.8	95	290	460	920	8,100
71556	1,1,1-Trichloroethane	450	1,900	180	750	8,600	8,600	41,000	41,000	1.2E+05
79016	Trichloroethylene	0.33 (M)	1.0 (M)	7.3E-02 (M)	0.21 (M)	6.1	18	21	41	380
526738	1,2,3-Trimethylbenzene	270	1,200	43	71	800	2,400	3,900	7,900	72,000
95636	1,2,4-Trimethylbenzene	150	650	25	44	440	1,300	2,200	4,400	40,000
108678	1,3,5-Trimethylbenzene	100	450	18	34	310	940	1,500	3,100	28,000
108054	Vinyl acetate	160 (M)	720 (M)	690	1,000	10,000	30,000	52,000	1.0E+05	9.9E+05
75014	Vinyl chloride	8.2E-02 (M)	2.0 (M)	0.12 (M)	1.8	0.96 (M)	9.6	28	56	1,800
1330207	Xylenes	280	1,200	75	140	1,200	3,600	6,000	12,000	1.1E+05 (S)

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