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Comparison of 2021 Indoor Air Remediation Standards and 2013 Indoor Air Screening Levels for the Vapor Intrusion Exposure Pathway

Contaminant	CAS No.	Analytical Reporting Limit	2013 Residential Indoor Air Screening Level (ug/m3)	2021 Adopted Residential Indoor Air Remediation Standard (ug/m3)	2013 Non Residential Indoor Air Screening Level (ug/m3)	2021 Non Residential Indoor Air Remediation Standard (ug/m3)
Acetone (2-Propanone)	67-64-1	12	32,000	NA ¹	140,000	NA ¹
Benzene	71-43-2	0.64	2	0.64	2	1.6
Bromodichloromethane (Dichlorobromomethane)	75-27-4	1.3	3	NA ¹	3	NA ¹
Bromoethene (Vinyl bromide)	593-60-2	0.87	2	NR	2	NR
Bromoform	75-25-2	2.1	5	NA ¹	11	NA ¹
Bromomethane (Methyl bromide)	74-83-9	0.78	5	5.2	22	22
1,3-Butadiene (Vinyl ethylene)	106-99-0	0.44	1	NR	1	NR
2-Butanone (Methyl ethyl ketone) (MEK)	78-93-3	1.5	5,200	5,200	22,000	22,000
Carbon disulfide	75-15-0	1.6	730	730	3,100	3,100
Carbon tetrachloride	56-23-5	1.3	3	1.3	3	2.0
Chlorobenzene	108-90-7	0.92	52	52	220	220
Chloroethane (Ethyl chloride)	75-00-3	1.3	10,000	10,000	44,000	44,000
Chloroform	67-66-3	0.98	2	100	2	430
Chloromethane (Methyl chloride)	74-87-3	1.0	94	94	390	390
3-Chloropropene (Allyl chloride)	107-05-1	0.63	2	NR	2	NR
Cyclohexane	110-82-7	0.69	6,300	6,300	26,000	26,000
Dibromochloromethane (Chlorodibromomethane)	124-48-1	1.7	4	NA ¹	4	NA ¹
1,2-Dibromoethane (Ethylene dibromide)	106-93-4	1.5	4	1.5	4	1.5
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	1.2	210	210	880	880
1,4-Dichlorobenzene (p-Dichlorobenzene)	106-46-7	1.2	3	830	3	3,500
Dichlorodifluoromethane (Freon 12)	75-71-8	2.5	100	NA ¹	440	NA ¹
1,1-Dichloroethane	75-34-3	0.81	2	NA ¹	8	NA ¹
1,2-Dichloroethane	107-06-2	0.81	2	7.3	2	31
1,1-Dichloroethene (1,1-Dichloroethylene)	75-35-4	0.79	210	21	880	88
1,2-Dichloroethene (trans) (t-1,2-Dichloroethylene)	156-60-5	0.79	63	NA ¹	260	NA ¹
1,2-Dichloropropane	78-87-5	0.92	2	0.92	2	3.3
1,3-Dichloropropane (total)	542-75-6	0.91	2	0.91	3	3.1
1,4-Dioxane	123-91-1	0.72	NR	0.72	NR	2.5

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Ethylbenzene	100-41-4	0.87	2	1.1	5	4.9
Hexachloro-1,3-butadiene	87-68-3	2.1	5	NA ¹	5	NA ¹
n-Hexane	110-54-3	0.7	730	730	3,100	3,100
Mercury (elemental)	7439-97-6	1.0	1	1.0	1	1.3
Methylene chloride (Dichloromethane)	75-09-2	1.7	96	280	1,200	1,200
4-Methyl-2-pentanone (MIBK)	108-10-1	2.0	3,100	3,100	13,000	13,000
Methyl tert-butyl ether (MTBE)	1634-04-4	0.72	9	11	47	47
Naphthalene	91-20-3	2.6	3	2.6	3	2.6
Styrene	100-42-5	0.85	1,000	1,000	4,400	4,400
1,1,2,2-Tetrachloroethane	79-34-5	1.4	3	NA ¹	3	NA ¹
Tetrachloroethene (PCE) (Tetrachloroethylene)	127-18-4	1.4	9	11	47	47
Toluene	108-88-3	0.75	5,200	5,200	22,000	22,000
1,2,4-Trichlorobenzene	120-82-1	3.7	4	3.7	9	8.8
1,1,1-Trichloroethane	71-55-6	1.1	5,200	5,200	22,000	22,000
1,1,2-Trichloroethane	79-00-5	1.1	3	NA ¹	3	NA ¹
Trichloroethene (TCE) (Trichloroethylene)	79-01-6	1.1	3	1.1	3	3.0
Trichlorofluoromethane (Freon 11)	75-69-4	1.1	730	NA ¹	3,100	NA ¹
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon TF)	76-13-1	1.5	31,000	5,200	130,000	22,000
1,2,4-Trimethylbenzene	95-63-6	0.98	NR	63	NR	260
Vinyl chloride	75-01-4	0.51	1	0.64	3	2.8
Xylenes (total)	1330-20-7	0.87	100	100	440	440

NA 1 = Appropriate toxicological information not available

NR = Compound not regulated

Summary of Comparison of Indoor Air Screening Levels and Indoor Air Remediation Standards for the Vapor Intrusion Exposure Pathway - Residential Exposure Scenario

2013 indoor air screening level existed but no 2021 indoor air remediation standard was adopted

14

11 Appropriate toxicological information not available
3 Compound not regulated

2021 indoor air remediation standard adopted but no 2013 indoor air screening level existed

2

2013 indoor air screening level existed and a 2021 indoor air remediation standard adopted

33

12

2021 adopted indoor air remediation standard is lower than the 2013 indoor air screening level

11 - Concentration difference less than an order of magnitude
1 - Concentration difference an order of magnitude or more

14

2021 adopted indoor air remediation standard equal to the 2013 indoor air screening level

7

2021 adopted indoor air remediation standard is greater than the 2013 indoor air screening level

Order of Magnitude Contaminants - Indoor Air - Vapor Intrusion Exposure Pathway Residential Exposure Scenario

Contaminant	CAS #	2013 Residential Indoor air screening level (ug/m3)	2021 adopted Residential Indoor air remediation standard (ug/m3)
1,1-Dichloroethene (1,1-Dichloroethylene)	75-35-4	210	21

Summary of Comparison of Indoor Air Screening Levels and Indoor Air Remediation Standards for the Vapor Intrusion Exposure Pathway - Non Residential Exposure Scenario

2013 indoor air screening level existed but no 2021 indoor air remediation standard was adopted

14

11 Appropriate toxicological information not available
3 Compound not regulated

2021 indoor air remediation standard adopted but no 2013 indoor air screening level existed

2

2013 indoor air screening level existed and a 2021 indoor air remediation standard adopted

33

9

2021 adopted indoor air remediation standard is lower than the prior indoor air screening level

8 - Concentration difference less than an order of magnitude

1 - Concentration difference an order of magnitude or more

18

2021 adopted indoor air remediation standard equal to the 2013 indoor air screening level

6

2021 adopted indoor air remediation standard is greater than the 2013 indoor air screening level

Order of Magnitude Contaminants - Indoor Air - Vapor Intrusion Exposure Pathway Non Residential Exposure Scenario

Contaminant	CAS #	2013 Non Residential Indoor air screening level (ug/m3)	2021 adopted Non Residential Indoor air remediation standard (ug/m3)
1,1-Dichloroethene (1,1-Dichloroethylene)	75-35-4	880	88