

**4717.7500 TABLE OF HEALTH RISK LIMITS.**

Subpart 1. **Generally.** This part contains the table of the health risk limits.

CAS RN	RfD* (milligrams per kilogram per day)	Slope factor* (the inverse of milligrams per kilogram per day)	Health Risk Limit (micrograms per liter)
Subp. 2. [Repealed, 43 SR 262]			
Subp. 3. [Repealed, 35 SR 1395]			
Subp. 3a. [Repealed, 35 SR 1395]			
Subp. 4. <b>Aldicarb.</b> Aldicarb:			
116-06-3	0.0002	--	1
Subp. 4a. <b>Allyl chloride (3 chloropropene).</b> Allyl chloride (3 chloropropene):			
107-05-1	0.05 (C)	--	30
Subp. 5. <b>Anthracene.</b> Anthracene:			
120-12-7	0.3	--	2,000
Subp. 6. <b>Antimony.</b> Antimony:			
7440-36-0	0.0004	--	6
Subp. 6a. [Repealed, 35 SR 1395]			
Subp. 7. <b>Barium.</b> Barium:			
7440-39-3	0.07	--	2,000
Subp. 8. [Repealed, 35 SR 1395]			
Subp. 9. <b>Benzoic acid.</b> Benzoic acid:			
65-85-0	4	--	30,000
Subp. 10. <b>Beryllium.</b> Beryllium:			
7440-41-7	--	4.3	0.08
Subp. 11. [Repealed, 48 SR 465]			

Subp. 12. **Bis(chloroethyl)ether (BCEE).** Bis(chloroethyl)ether (BCEE):

111-44-4	--	1.1	0.3
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Subp. 13. **Bis(chloromethyl)ether (BCME).** Bis(chloromethyl)ether (BCME):

542-88-1	--	220	0.002
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Subp. 14. [Repealed, 35 SR 1395]

Subp. 15. [Repealed, 48 SR 465]

Subp. 16. **Bromoform.** Bromoform:

75-25-2	--	0.0079	40
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Subp. 17. **Bromomethane (Methyl bromide).** Bromomethane (Methyl bromide):

74-83-9	0.0014	--	10
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Subp. 18. **n-Butanol.** n-Butanol:

71-36-3	0.1	--	700
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Subp. 19. [Repealed, 40 SR 689]

Subp. 20. **Butylphthalyl butylglycolate (BPBG).** Butylphthalyl butylglycolate (BPBG):

85-70-1	1	--	7,000
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Subp. 21. [Repealed, 40 SR 689]

Subp. 22. **Carbon disulfide.** Carbon disulfide:

75-15-0	0.1	--	700
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Subp. 23. [Repealed, 38 SR 397]

Subp. 23a. **Chloramben.** Chloramben:

133-90-4	0.015	--	100
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Subp. 24. **Chlorobenzene.** Chlorobenzene:

108-90-7	0.02	--	100
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Subp. 25. [Repealed, 35 SR 1395]

Subp. 26. **2-Chlorophenol.** 2-Chlorophenol:

95-57-8	0.005	--	30
Subp. 26a. <b>Chlorothalonil.</b> Chlorothalonil:			
1897-45-6	--	0.011	30
Subp. 26b. <b>Chromium III.</b> Chromium III:			
16065-83-1	1	--	20,000
Subp. 27. <b>Chromium VI.</b> Chromium VI:			
18540-29-9	0.005	--	100
Subp. 28. <b>Cumene (Isopropyl benzene).</b> Cumene (Isopropyl benzene):			
98-82-8	0.04	--	300
Subp. 29. <b>Cyanide, free.</b> Cyanide, free:			
57-12-5	0.02	--	100
Subp. 30. <b>Dibromochloromethane.</b> Dibromochloromethane:			
124-48-1	0.02 (C)	--	10
Subp. 31. <b>1,2-Dibromoethane (Ethylene dibromide, EDB).</b> 1,2-Dibromoethane (Ethylene dibromide, EDB):			
106-93-4	--	85	0.004
Subp. 32. [Repealed, 40 SR 689]			
Subp. 33. <b>Dicamba.</b> Dicamba:			
1918-00-9	0.03	--	200
Subp. 34. <b>1,2-Dichlorobenzene.</b> 1,2-Dichlorobenzene:			
95-50-1	0.09	--	600
Subp. 34a. [Repealed, 48 SR 465]			
Subp. 35. <b>3,3'-Dichlorobenzidine.</b> 3,3'-Dichlorobenzidine:			
91-94-1	--	0.45	0.8

Subp. 36. [Repealed, 35 SR 1395]

Subp. 37. **p,p'-Dichlorodiphenyl dichloroethane (DDD)**. p,p'-Dichlorodiphenyl dichloroethane (DDD):

72-54-8	--	0.24	1
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Subp. 38. **p,p'-Dichlorodiphenyldichloroethylene (DDE)**. p,p'-Dichlorodiphenyldichloroethylene (DDE):

72-55-9	--	0.34	1
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Subp. 39. **p,p'-Dichlorodiphenyltrichloroethane (DDT)**. p,p'-Dichlorodiphenyltrichloroethane (DDT):

50-29-3	--	0.34	1
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Subp. 39a. [Repealed, 35 SR 1395]

Subp. 40. [Repealed, 38 SR 397]

Subp. 40a. [Repealed, 35 SR 1395]

Subp. 41. [Repealed, 35 SR 1395]

Subp. 42. [Repealed, 38 SR 397]

Subp. 43. [Repealed, 35 SR 1395]

Subp. 44. **2,4-Dichlorophenol**. 2,4-Dichlorophenol:

120-83-2	0.003	--	20
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Subp. 45. [Repealed, 43 SR 262]

Subp. 45a. [Repealed, 48 SR 465]

Subp. 45b. **1,3-Dichloropropene**. 1,3-Dichloropropene:

542-75-6	--	0.18	2
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Subp. 46. [Repealed, 35 SR 1395]

Subp. 47. **Diethyl phthalate**. Diethyl phthalate:

84-66-2	0.8	--	6,000
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Subp. 48. **2,4-Dimethylphenol**. 2,4-Dimethylphenol:

5		MINNESOTA RULES		4717.7500
105-67-9	0.02	--		100
	Subp. 48a. <b>Dimethylphthalate.</b> Dimethylphthalate:			
131-11-3	10	--		70,000
	Subp. 49. <b>2,4-Dinitrophenol.</b> 2,4-Dinitrophenol:			
51-28-5	0.002	--		10
	Subp. 49a. <b>Disulfoton.</b> Disulfoton:			
298-04-4	0.00004	--		0.3
	Subp. 50. [Repealed, 35 SR 1395]			
	Subp. 51. [Repealed, 43 SR 262]			
	Subp. 52. [Repealed, 35 SR 1395]			
	Subp. 52a. [Repealed, 35 SR 1395]			
	Subp. 53. [Repealed, 43 SR 262]			
	Subp. 54. [Repealed, 48 SR 465]			
	Subp. 54a. <b>Formaldehyde.</b> Formaldehyde:			
50-00-0	0.2	--		1,000
	Subp. 55. <b>Heptachlor.</b> Heptachlor:			
76-44-8	--	4.5		0.08
	Subp. 56. <b>Heptachlor epoxide.</b> Heptachlor epoxide:			
1024-57-3	--	9.1		0.04
	Subp. 57. <b>Hexachlorobenzene.</b> Hexachlorobenzene:			
118-74-1	--	1.6		0.2
	Subp. 58. <b>Hexachlorobutadiene.</b> Hexachlorobutadiene:			
87-68-3	0.002 (C)	--		1
	Subp. 58a. [Repealed, 48 SR 465]			
	Subp. 59. <b>Isophorone.</b> Isophorone:			

4717.7500		MINNESOTA RULES	6
78-59-1	0.2 (C)	--	100
	Subp. 60. <b>Linuron.</b> Linuron:		
330-55-2	0.002 (C)	--	1
	Subp. 61. [Repealed, 48 SR 465]		
	Subp. 61a. <b>Methanol.</b> Methanol:		
67-56-1	0.5	--	3,000
	Subp. 62. <b>2-Methyl-4-chlorophenoxyacetic acid (MCPA).</b> 2-Methyl-4-chlorophenoxyacetic acid (MCPA):		
94-74-6	0.0005	--	3
	Subp. 62a. <b>Methyl ethyl ketone (MEK, 2-butanone).</b> Methyl ethyl ketone (MEK, 2-butanone):		
78-93-3	0.6	--	4,000
	Subp. 62b. <b>Methyl isobutyl ketone (MIBK).</b> Methyl isobutyl ketone (MIBK):		
108-10-1	0.05	--	300
	Subp. 63. <b>2-Methylphenol (o-cresol).</b> 2-Methylphenol (o-cresol):		
95-48-7	0.05 (C)	--	30
	Subp. 64. <b>3-Methylphenol (m-cresol).</b> 3-Methylphenol (m-cresol):		
108-39-4	0.05 (C)	--	30
	Subp. 64a. <b>4-Methylphenol (p-cresol).</b> 4-Methylphenol (p-cresol):		
106-44-5	0.005 (C)	--	3
	Subp. 65. [Repealed, 35 SR 1395]		
	Subp. 66. [Repealed, 38 SR 397]		
	Subp. 66a. [Repealed, 38 SR 397]		
	Subp. 67. <b>Nickel, soluble salts.</b> Nickel, soluble salts:		
7440-02-0	0.02	--	100
	Subp. 68. [Repealed, 35 SR 1395]		

Subp. 69. **N-Nitrosodiphenylamine.** N-Nitrosodiphenylamine:

86-30-6	--	0.0049	70
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## Subp. 70. [Repealed, 35 SR 1395]

## Subp. 70a. MR 2008 [Expired]

## Subp. 70b. MR 2008 [Expired]

Subp. 71. **Phenol.** Phenol:

108-95-2	0.6	--	4,000
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Subp. 72. **Picloram.** Picloram:

1918-02-1	0.07	--	500
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Subp. 72a. **Polychlorinated biphenyls (PCBs).** Polychlorinated biphenyls (PCBs):

1336-36-3	--	7.7	.04
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Subp. 73. **Prometon.** Prometon:

1610-18-0	0.015	--	100
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Subp. 74. **Propachlor.** Propachlor:

1918-16-7	0.013	--	90
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## Subp. 75. [Repealed, 43 SR 262]

Subp. 76. **Selenium.** Selenium:

7782-49-2	0.005	--	30
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Subp. 77. **Silver.** Silver:

7440-22-4	0.005	--	30
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## Subp. 77a. [Repealed, 35 SR 1395]

Subp. 78. **1,1,1,2-Tetrachloroethane.** 1,1,1,2-Tetrachloroethane:

630-20-6	0.03 (C)	--	70
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Subp. 78a. **1,1,2,2-Tetrachloroethane.** 1,1,2,2-Tetrachloroethane:

4717.7500		MINNESOTA RULES	8
79-34-5	--	0.2 (C)	2
		Subp. 78b. [Repealed, 35 SR 1395]	
		Subp. 78c. <b>Thallium salts.</b> Thallium salts:	
7440-28-0	0.00008	--	0.6
		Subp. 78d. <b>Tin.</b> Tin:	
7440-31-5	0.6	--	4,000
		Subp. 79. [Repealed, 35 SR 1395]	
		Subp. 80. <b>Toxaphene.</b> Toxaphene:	
8001-35-2	--	1.1	0.3
		Subp. 80a. [Repealed, 35 SR 1395]	
		Subp. 81. <b>1,1,2-Trichloroethane.</b> 1,1,2-Trichloroethane:	
79-00-5	0.004 (C)	--	3
		Subp. 81a. [Repealed, 35 SR 1395]	
		Subp. 82. <b>Trichlorofluoromethane.</b> Trichlorofluoromethane:	
75-69-4	0.3	--	2,000
		Subp. 83. <b>2,4,6-Trichlorophenol.</b> 2,4,6-Trichlorophenol:	
88-06-2	--	0.011	30
		Subp. 84. <b>2,4,5-Trichlorophenoxyacetic acid (2,4,5-T).</b> 2,4,5-Trichlorophenoxyacetic acid (2,4,5-T):	
93-76-5	0.01	--	70
		Subp. 85. [Repealed, 35 SR 1395]	
		Subp. 86. [Repealed, 38 SR 397]	
		Subp. 87. <b>1,1,2-Trichloro-1,2,2-trifluoroethane.</b> 1,1,2-Trichloro-1,2,2-trifluoroethane:	
76-13-1	30	--	200,000
		Subp. 88. <b>1,3,5-Trinitrobenzene.</b> 1,3,5-Trinitrobenzene:	



99-35-4	0.00005	--	0.3
Subp. 88a. <b>Vanadium.</b> Vanadium:			
7440-62-2	0.007	--	50
Subp. 88b. [Repealed, 35 SR 1395]			
Subp. 89. [Repealed, 35 SR 1395]			
Subp. 89a. <b>Zinc.</b> Zinc:			
7440-66-6	0.3	--	2,000

Subp. 90. **Reference doses and slope factors.** For purposes of this part:

\* Substances or chemicals that have an RfD or slope factor annotated with a (C) are classified by the United States Environmental Protection Agency as possible human carcinogens.

**Statutory Authority:** *MS s 103H.201; 144.0751; 144.12; L 2007 c 37*

**History:** *18 SR 1340; 19 SR 1191; 32 SR 373; 35 SR 1395; 38 SR 397; 40 SR 689; 43 SR 262*

**Published Electronically:** *November 22, 2023*