

IDEM Published Levels Table 1 Human Health: Standard Exposure Scenarios	Medium >	SOIL			GROUNDWATER	INDOOR AIR		SOIL GAS OR CONDUIT VAPOR					
	Type >	Long Term		Short Term	Long Term	Long Term		Subslab/Deep Exterior/Conduit			Shallow Exterior/Utility Corridor		
	Land Use >	Res	Com	Exc	Res	Res	Com	Res	Com	Large Com	Res	Com	Large Com
	Units/Q >	mg/kg Q	mg/kg Q	mg/kg Q	µg/L Q	µg/m ³ Q	µg/m ³ Q	µg/m ³ Q	µg/m ³ Q	µg/m ³ Q	µg/m ³ Q	µg/m ³ Q	µg/m ³ Q
Benzofluorene, 2,3-	243-17-4	4.E+02 N	4.E+03 N	9.E+03 N	1.E+02 N								
Benzoic Acid	65-85-0	1.E+05 L	1.E+05 L	1.E+05 L	8.E+04 N								
Benzotrifluoride	98-07-7	7.E-01 C	3.E+00 C	1.E+02 C	3.E-02 C								
Benzyl Alcohol	100-51-6	9.E+03 N	8.E+04 N	1.E+05 L	2.E+03 N								
Benzyl Chloride	100-44-7			5.E+02 N	9.E-01 C	6.E-01 C	3.E+00 C	2.E+01 C	8.E+01 C	8.E+02 C	6.E+00 C	3.E+01 C	3.E+02 C
Beryllium and compounds	7440-41-7	2.E+02 N	2.E+03 N	4.E+03 N	4.E+00 M								
Bifenox	42576-02-3	8.E+02 N	7.E+03 N	2.E+04 N	1.E+02 N								
Biphenyl	82657-04-3	1.E+03 N	1.E+04 N	3.E+04 N	3.E+02 N								
Biphenyl, 1,1'-	92-52-4	7.E+01 N	2.E+02 N	1.E+03 N	8.E-01 N								
Bis(2-chloro-1-methylethyl) ether	108-60-1	1.E+03 S	1.E+03 S	1.E+03 S	7.E+02 N								
Bis(2-chloroethoxy)methane	111-91-1	3.E+02 N	3.E+03 N	5.E+03 N	6.E+01 N								
Bis(2-chloroethyl)ether	111-44-4			8.E+02 C	1.E-01 C	9.E-02 C	4.E-01 C	3.E+00 C	1.E+01 C	1.E+02 C	9.E-01 C	4.E+00 C	4.E+01 C
Bis(2-ethylhexyl)phthalate	117-81-7	5.E+02 C	2.E+03 C	3.E+04 N	6.E+00 M								
Bis(chloromethyl)ether	542-88-1			5.E-01 C	7.E-04 C	5.E-04 C	2.E-03 C	2.E-02 C	7.E-02 C	7.E-01 C	5.E-03 C	2.E-02 C	2.E-01 C
Bis(trifluoromethylsulfonyl)amine (TFSI)	82113-65-3	3.E+01 N	4.E+02 N	6.E+02 N	6.E+00 N								
Bisphenol A	80-05-7	4.E+03 N	4.E+04 N	9.E+04 N	8.E+02 N								
Boron And Borates Only	7440-42-8	2.E+04 N	1.E+05 L	1.E+05 L	4.E+03 N								
Boron Trichloride	10294-34-5			1.E+05 L	4.E+01 N	2.E+01 N	9.E+01 N	7.E+02 N	3.E+03 N	3.E+04 N	2.E+02 N	9.E+02 N	9.E+03 N
Boron Trifluoride	7637-07-2			8.E+04 N	3.E+01 N	1.E+01 N	6.E+01 N	5.E+02 N	2.E+03 N	2.E+04 N	1.E+02 N	6.E+02 N	6.E+03 N
Bromate	15541-45-4	1.E+01 C	5.E+01 C	2.E+03 C	1.E+01 M								
Bromo-2-chloroethane, 1-	107-04-0			9.E+00 N	1.E-01 N	6.E-02 N	3.E-01 N	2.E+00 N	9.E+00 N	9.E+01 N	6.E-01 N	3.E+00 N	3.E+01 N
Bromo-3-fluorobenzene, 1-	1073-06-9			6.E+02 N	5.E+00 N								
Bromo-4-fluorobenzene, 1-	460-00-4			3.E+02 S	5.E+00 N								
Bromoacetic acid	79-08-3	2.E+02 N	1.E+03 N	3.E+03 N	6.E+01 M								
Bromobenzene	108-86-1			7.E+02 S	6.E+01 N	6.E+01 N	3.E+02 N	2.E+03 N	9.E+03 N	9.E+04 N	6.E+02 N	3.E+03 N	3.E+04 N
Bromochloromethane	74-97-5			4.E+03 N	8.E+01 N	4.E+01 N	2.E+02 N	1.E+03 N	6.E+03 N	6.E+04 N	4.E+02 N	2.E+03 N	2.E+04 N
Bromodichloromethane	75-27-4			9.E+02 S	8.E+01 M	8.E-01 C	3.E+00 C	3.E+01 C	1.E+02 C	8.E+00 C	3.E+01 C	3.E+02 C	3.E+02 C
Bromoform	75-25-2			9.E+02 S	8.E+01 M	3.E+01 C	1.E+02 C	9.E+02 C	4.E+03 C	4.E+04 C	3.E+02 C	1.E+03 C	1.E+04 C
Bromomethane	74-83-9			2.E+02 N	8.E+00 N	5.E+00 N	2.E+01 N	2.E+02 N	7.E+02 N	7.E+03 N	5.E+01 N	2.E+02 N	2.E+03 N
Bromophos	2104-96-3	5.E+02 N	6.E+03 N	1.E+04 N	4.E+01 N								
Bromopropane, 1-	106-94-5			1.E+03 S	2.E+01 C	8.E+00 C	3.E+01 C	3.E+02 C	1.E+03 C	1.E+04 C	8.E+01 C	3.E+02 C	3.E+03 C
Bromoxnill	1689-84-5	7.E+01 C	2.E+02 C	1.E+04 C	6.E+00 C								
Bromoxnill Octanoate	1689-99-2	9.E+01 C	3.E+02 C	1.E+04 C	2.E+00 C								
Butadiene, 1,3-	106-99-0			4.E+01 N	7.E-01 C	9.E-01 C	4.E+00 C	3.E+01 C	1.E+02 C	1.E+03 C	9.E+00 C	4.E+01 C	4.E+02 C
Butanol, N-	71-36-3			8.E+03 S	2.E+03 N								
Butyl alcohol, sec-	78-92-2			2.E+04 S	2.E+04 C	3.E+04 N	1.E+05 N	1.E+06 N	4.E+06 N	4.E+07 N	3.E+05 N	1.E+06 N	1.E+07 N
Butyl Alcohol, t-	75-65-0			1.E+05 L	2.E+03 C	5.E+03 N	2.E+04 N	2.E+05 N	7.E+05 N	7.E+06 N	5.E+04 N	2.E+05 N	2.E+06 N
Butyl Benzyl Phthalate	85-68-7	4.E+03 C	1.E+04 C	1.E+05 L	2.E+02 C								
Butylate	2008-41-5	5.E+03 N	6.E+04 N	1.E+05 N	5.E+02 N								
Butylated hydroxyanisole	25013-16-5	4.E+04 C	1.E+05 L	1.E+05 L	2.E+03 C								
Butylated hydroxytoluene	128-37-0	2.E+03 C	6.E+03 C	1.E+05 L	3.E+01 C								
Butylbenzene, n-	104-51-8			1.E+02 S	1.E+03 N								
Butylbenzene, sec-	135-98-8			1.E+02 S	2.E+03 N								
Butylbenzene, tert-	98-06-6			2.E+02 S	7.E+02 N								
Butylphthalyl Butylglycolate	85-70-1	9.E+04 N	1.E+05 L	1.E+05 L	1.E+04 N								
Cacodylic Acid	75-60-5	2.E+03 N	2.E+04 N	3.E+04 N	4.E+02 N								
Cadmium (Diet)	7440-43-9	1.E+01 N	1.E+02 N	2.E+02 N									
Cadmium (Water)	7440-43-9				5.E+00 M								
Calcium Cyanide	592-01-8	1.E+02 N	1.E+03 N	2.E+03 N	2.E+01 N								
Caprolactam	105-60-2	4.E+04 N	1.E+05 L	1.E+05 L	1.E+04 N								
Captan	2425-06-1	5.E+01 C	2.E+02 C	3.E+03 N	4.E+00 C								
Captan	133-06-2	3.E+03 C	1.E+04 C	1.E+05 L	3.E+02 C								
Carbaryl	63-25-2	9.E+03 N	8.E+04 N	1.E+05 L	2.E+03 N								
Carbofuran	1563-66-2	4.E+02 N	4.E+03 N	9.E+03 N	4.E+01 M								
Carbon Disulfide	75-15-0			7.E+02 S	8.E+02 N	7.E+02 N	3.E+03 N	2.E+04 N	1.E+05 N	1.E+06 N	7.E+03 N	3.E+04 N	3.E+05 N
Carbon Tetrachloride	56-23-5			5.E+02 S	5.E+00 M	5.E+00 C	2.E+01 C	2.E+02 C	7.E+02 C	7.E+03 C	5.E+01 C	2.E+02 C	2.E+03 C
Carbonyl Sulfide	463-58-1			2.E+03 N	2.E+02 N	1.E+02 N	4.E+02 N	3.E+03 N	1.E+04 N	1.E+05 N	1.E+03 N	4.E+03 N	4.E+04 N
Carbosulfan	55285-14-8	9.E+02 N	8.E+03 N	2.E+04 N	5.E+01 N								
Carboxin	5234-68-4	9.E+03 N	8.E+04 N	1.E+05 L	2.E+03 N								
Ceric oxide	1306-38-3	1.E+05 L	1.E+05 L	1.E+05 L									
Chloral Hydrate	302-17-0			1.E+05 L	2.E+03 N								
Chloramben	133-90-4	1.E+03 N	1.E+04 N	3.E+04 N	3.E+02 N								
Chloramines, Organic	E701235				4.E+03 M								
Chloranil	118-75-2	2.E+01 C	6.E+01 C	3.E+03 C	2.E+00 C								
Chlordane (alpha)	5103-71-9	5.E+01 N	5.E+02 N	9.E+02 N	4.E+00 N								
Chlordane (gamma)	5103-74-2	5.E+01 N	5.E+02 N	9.E+02 N	1.E+01 N								
Chlordane (technical mixture)	12789-03-6	2.E+01 C	8.E+01 C	9.E+02 N	2.E+00 M								
Chlordecone (Kepone)	143-50-0	8.E-01 C	2.E+00 C	1.E+02 C	4.E-02 C								
Chlorfenvinphos	470-90-6	6.E+01 N	6.E+02 N	1.E+03 N	1.E+01 N								
Chlorimuron, Ethyl-	90982-32-4	8.E+03 N	7.E+04 N	1.E+05 L	2.E+03 N								
Chlorine	7782-50-5			4.E+00 N	4.E+03 M	2.E-01 N	6.E-01 N	5.E+00 N	2.E+01 N	2.E+02 N	2.E+00 N	6.E+00 N	6.E+01 N
Chlorine Dioxide	10049-04-4			6.E+04 N	8.E+02 M	2.E-01 N	9.E-01 N	7.E+00 N	3.E+01 N	3.E+02 N	2.E+00 N	9.E+00 N	9.E+01 N
Chlorite (Sodium Salt)	7758-19-2	3.E+03 N	4.E+04 N	6.E+04 N	1.E+03 M								
Chloro-1,1-difluoroethane, 1-	75-68-3			1.E+03 S	1.E+05 N	5.E+04 N	2.E+05 N	2.E+06 N	7.E+06 N	7.E+07 N	5.E+05 N	2.E+06 N	2.E+07 N
Chloro-1,3-butadiene, 2- (Chloroprene)	126-99-8			6.E+01 C	7.E-02 C	3.E-02 C	4.E-01 C	1.E+00 C	1.E+01 C	1.E+02 C	3.E-01 C	4.E+00 C	4.E+01 C

IDEM Published Levels Table 1 Human Health: Standard Exposure Scenarios	Medium >	SOIL			GROUNDWATER	INDOOR AIR		SOIL GAS OR CONDUIT VAPOR					
	Type >	Long Term		Short Term	Long Term	Long Term		Subslab/Deep Exterior/Conduit			Shallow Exterior/Utility Corridor		
	Land Use >	Res	Com	Exc	Res	Res	Com	Res	Com	Large Com	Res	Com	Large Com
	Units/Q >	mg/kg Q	mg/kg Q	mg/kg Q	µg/L Q	µg/m ³ Q	µg/m ³ Q	µg/m ³ Q	µg/m ³ Q	µg/m ³ Q	µg/m ³ Q	µg/m ³ Q	µg/m ³ Q
Trichlorophenol, 2,4,6-	88-06-2	9.E+01 N	8.E+02 N	2.E+03 N	1.E+01 N								
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5	9.E+02 N	8.E+03 N	2.E+04 N	2.E+02 N								
Trichlorophenoxypropionic acid, -2,4,5	93-72-1	7.E+02 N	7.E+03 N	1.E+04 N	5.E+01 M								
Trichloropropane, 1,1,2-	598-77-6			1.E+03 S	9.E+01 N								
Trichloropropane, 1,2,3-	96-18-4			5.E+01 C	8.E-03 C	3.E-01 N	1.E+00 N	1.E+01 N	4.E+01 N	4.E+02 N	3.E+00 N	1.E+01 N	1.E+02 N
Trichloropropene, 1,2,3-	96-19-5			2.E+01 N	6.E-01 C	3.E-01 N	1.E+00 N	1.E+01 N	4.E+01 N	4.E+02 N	3.E+00 N	1.E+01 N	1.E+02 N
Tricresyl Phosphate (TCP)	1330-78-5	2.E+03 N	2.E+04 N	3.E+04 N	2.E+02 N								
Tridiphane	58138-08-2	3.E+02 N	3.E+03 N	5.E+03 N	2.E+01 N								
Triethylamine	121-44-8			3.E+03 N	2.E+01 N	7.E+00 N	3.E+01 N	2.E+02 N	1.E+03 N	1.E+04 N	7.E+01 N	3.E+02 N	3.E+03 N
Triethylene Glycol	112-27-6	1.E+05 L	1.E+05 L	1.E+05 L	4.E+04 N								
Trifluoroethane, 1,1,1-	420-46-2			5.E+03 S	4.E+04 N	2.E+04 N	9.E+04 N	7.E+05 N	3.E+06 N	3.E+07 N	2.E+05 N	9.E+05 N	9.E+06 N
Trifluralin	1582-09-8	8.E+02 N	4.E+03 C	1.E+04 N	3.E+01 C								
Trimethyl Phosphate	512-56-1	4.E+02 C	1.E+03 C	2.E+04 N	4.E+01 C								
Trimethylbenzene, 1,2,3-	526-73-8			3.E+02 S	6.E+01 N	6.E+01 N	3.E+02 N	2.E+03 N	9.E+03 N	9.E+04 N	6.E+02 N	3.E+03 N	3.E+04 N
Trimethylbenzene, 1,2,4-	95-63-6			2.E+02 S	6.E+01 N	6.E+01 N	3.E+02 N	2.E+03 N	9.E+03 N	9.E+04 N	6.E+02 N	3.E+03 N	3.E+04 N
Trimethylbenzene, 1,3,5-	108-67-8			2.E+02 S	6.E+01 N	6.E+01 N	3.E+02 N	2.E+03 N	9.E+03 N	9.E+04 N	6.E+02 N	3.E+03 N	3.E+04 N
Trimethylpentene, 2,4,4-	25167-70-8			3.E+01 S	4.E+01 N								
Tri-n-butyltin	688-73-3	3.E+01 N	4.E+02 N	6.E+02 N	4.E+00 N								
Trinitrobenzene, 1,3,5-	99-35-4	3.E+03 N	3.E+04 N	6.E+04 N	6.E+02 N								
Trinitrotoluene, 2,4,6-	118-96-7	5.E+01 N	5.E+02 N	9.E+02 N	1.E+01 N								
Triphenylphosphine Oxide	791-28-6	2.E+03 N	2.E+04 N	3.E+04 N	4.E+02 N								
Triphosphoric acid, aluminum salt (1:1) [aluminum triphosphate]	13939-25-8	1.E+05 L	1.E+05 L	1.E+05 L	6.E+04 N								
Tripotassium phosphate	7778-53-2	1.E+05 L	1.E+05 L	1.E+05 L	2.E+04 N								
Tris(1,3-Dichloro-2-propyl) Phosphate	13674-87-8	2.E+03 N	2.E+04 N	3.E+04 N	4.E+02 N								
Tris(1-chloro-2-propyl)phosphate	13674-84-5	9.E+02 N	8.E+03 N	2.E+04 N	2.E+02 N								
Tris(2,3-dibromopropyl)phosphate	126-72-7	4.E+00 C	1.E+01 C	5.E+02 S	7.E-02 C								
Tris(2-chloroethyl)phosphate	115-96-8	4.E+02 C	1.E+03 C	1.E+04 N	4.E+01 C								
Tris(2-ethylhexyl)phosphate	78-42-2	2.E+03 C	7.E+03 C	1.E+05 L	2.E+02 C								
Trisodium phosphate	7601-54-9	1.E+05 L	1.E+05 L	1.E+05 L	2.E+04 N								
Tungsten	7440-33-7	9.E+01 N	9.E+02 N	2.E+03 N	2.E+01 N								
Uranium	7440-61-1	2.E+01 N	2.E+02 N	4.E+02 N	3.E+01 M								
Urethane	51-79-6	2.E+00 C	2.E+01 C	1.E+03 C	3.E-01 C								
Vanadium and Compounds	7440-62-2	5.E+02 N	6.E+03 N	1.E+04 N	9.E+01 N								
Vanadium Pentoxide	1314-62-1	9.E+02 N	8.E+03 N	2.E+04 N	2.E+02 N								
Vernolate	1929-77-7	1.E+02 N	1.E+03 N	2.E+03 N	1.E+01 N								
Vinclozolin	50471-44-8	1.E+02 N	1.E+03 N	2.E+03 N	2.E+01 N								
Vinyl Acetate	108-05-4			3.E+03 S	4.E+02 N	2.E+02 N	9.E+02 N	7.E+03 N	3.E+04 N	3.E+05 N	2.E+03 N	9.E+03 N	9.E+04 N
Vinyl Bromide	593-60-2			1.E+02 N	4.E+00 C	2.E+00 C	8.E+00 C	6.E+01 C	3.E+02 C	3.E+03 C	2.E+01 C	8.E+01 C	8.E+02 C
Vinyl Chloride	75-01-4			1.E+03 N	2.E+00 M	2.E+00 C	3.E+01 C	6.E+01 C	9.E+02 C	9.E+03 C	2.E+01 C	3.E+02 C	3.E+03 C
Warfarin	81-81-2	3.E+01 N	3.E+02 N	5.E+02 N	6.E+00 N								
Xylenes	1330-20-7			3.E+02 S	1.E+04 M	1.E+02 N	4.E+02 N	3.E+03 N	1.E+04 N	1.E+05 N	1.E+03 N	4.E+03 N	4.E+04 N
Zinc and Compounds	7440-66-6	3.E+04 N	1.E+05 L	1.E+05 L	6.E+03 N								
Zinc Cyanide	557-21-1	5.E+03 N	6.E+04 N	1.E+05 N	1.E+03 N								
Zinc Phosphide	1314-84-7	3.E+01 N	4.E+02 N	6.E+02 N	6.E+00 N								
Zineb	12122-67-7	4.E+03 N	4.E+04 N	9.E+04 N	1.E+03 N								
Zirconium	7440-67-7	9.E+00 N	9.E+01 N	2.E+02 N	2.E+00 N								

IDEM derives the levels in Table 1 as described in IDEM's Risk-based Closure Guide Chapter 3 and Appendix A assuming a total HQ of 1 and a risk level of 10⁻⁵. Exceedance of IDEM's published levels indicates that further evaluation of potential exposure risk is appropriate.

C = Carcinogenic endpoint

D = Set to common laboratory detection limit

L = Capped at 100,000 mg/kg (soil direct contact only)

M = Set to maximum contaminant limit (MCL; ground water only)

mg/kg = milligrams per kilogram

N = Noncarcinogenic endpoint

S = Capped at soil saturation limit

µg/L = micrograms per liter; µg/m³ = micrograms per cubic meter

IDEM generally considers shallow soil gas to include samples collected no more than five feet below ground surface, and deep soil gas samples to include samples collected at more than five feet below ground surface.

If other sources of lead are present, the soil lead level is 100 mg/kg. Details are available at the Updated Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities website.

<https://www.epa.gov/superfund/updated-soil-lead-guidance-cercla-sites-and-rcra-corrective-action-facilities>