

Chapter 327 Protective Concentration Levels (PCLs) for Soils

Chemical of Concern	CAS	Chapter 327 PCL		note ¹	basis ²	
		(mg/kg)				
Acenaphthene	83-32-9	1.2E+02	---	n	---	b
Acenaphthylene	208-96-8	2.0E+02	---	n	---	b
Acetaldehyde	75-07-0	2.5E+00	c	n	---	b
Acetic acid*	64-19-7	---	---	---	---	---
Acetone (2-propanone)	67-64-1	2.4E+00	---	n	---	b
Acetone cyanohydrin	75-86-5	1.9E-02	---	n	---	b
Acetonitrile	75-05-8	6.7E+02	---	n	---	a
Acetophenone	98-86-2	4.1E+00	---	n	---	b
Acetylaminofluorene, 2-	53-96-3	2.3E-03	c	---	---	b
Acifluorfen, sodium	62476-59-9	1.0E+00	---	n	---	b
Acridine	260-94-6	3.8E+00	---	n	---	b
Acrolein	107-02-8	4.7E-01	---	n	---	b
Acrylamide	79-06-1	2.0E-04	c	n	---	b
Acrylic acid (propenoic acid)	79-10-7	1.2E+01	---	n	---	b
Acrylonitrile	107-13-1	1.7E-03	c	n	---	b
Adipic acid (hexanedioic acid)	124-04-9	1.2E+02	---	n	---	b
Alachlor	15972-60-8	9.5E-03	c	n	---	b
Aldicarb	116-06-3	8.9E-03	---	n	---	b
Aldicarb sulfone	1646-88-4	6.9E-03	---	n	---	b
Aldrin	309-00-2	5.0E-02	c	n	---	a
Allyl alcohol	107-18-6	1.3E-01	---	n	---	b
Allyl chloride	107-05-1	5.1E-01	---	n	---	b
Aluminum	7429-90-5	7.1E+02	---	n	---	e
Ametryn	834-12-8	3.6E+00	---	n	---	b
Aminobiphenyl, 4- (1,1-biphenyl-4-amine)	92-67-1	5.4E-03	c	---	---	b
Amino-2,6-dinitrotoluene, 4-	19406-51-0	3.3E-02	c	n	---	b
Amino-4,6-dinitrotoluene, 2-	35572-78-2	5.0E-02	c	n	---	b
Aminopyridine, 4-	504-24-5	4.7E-04	---	n	---	b
Ammonia	7664-41-7	1.6E+00	---	n	---	e
Ammonium polyphosphate*	68333-79-9	---	---	---	---	---
Ammonium salts*	NA	---	---	---	---	---
Aniline	62-53-3	1.8E-01	c	n	---	b
Anthracene	120-12-7	3.4E+03	---	n	> S	b
Anthraquinone, 9,10-	84-65-1	1.2E+01	---	n	> S	b
Antimony	7440-36-0	2.7E+00	---	n	---	b
Aramite	140-57-8	1.1E+02	c	n	---	a
Arsenic	7440-38-2	2.5E+00	c	n	---	b
Arsine	7784-42-1	3.9E-01	---	n	---	a
Asbestos	1332-21-4	1.5E+03	c	---	---	a
Atrazine	1912-24-9	1.2E-02	c	n	---	b
Azinphos-methyl (guthion)	86-50-0	2.2E-01	---	n	---	b
Azobenzene	103-33-3	8.8E+00	c	---	---	b
Barium	7440-39-3	2.2E+02	---	n	---	b
Bayleton	43121-43-3	3.7E+00	---	n	---	b

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Benefin (benfluralin)	1861-40-1	1.9E+04	---	n	---	a
Benomyl	17804-35-2	1.5E+00	---	n	---	b
Benz-a-anthracene	56-55-3	5.6E+00	c	---	---	a
Benzaldehyde	100-52-7	5.3E+00	---	n	---	b
Benzene	71-43-2	1.3E-02	c	n	---	b
Benzenethiol	108-98-5	3.4E-04	---	n	---	b
Benidine	92-87-5	5.5E-06	c	n	---	b
Benzo-a-pyrene	50-32-8	5.6E-01	c	---	---	a
Benzo-b-fluoranthene	205-99-2	5.7E+00	c	---	---	a
Benzo-e-pyrene	192-97-2	1.8E+03	---	n	---	a
Benzo-g,h,i-perylene	191-24-2	1.8E+03	---	n	---	a
Benzoic acid	65-85-0	9.5E+01	---	n	---	b
Benzo-k-fluoranthene	207-08-9	5.7E+01	c	---	---	a
Benzotrichloride	98-07-7	2.1E-03	c	---	---	b
Benzyl alcohol	100-51-6	8.8E+00	---	n	---	b
Benzyl chloride	100-44-7	2.5E-02	c	---	---	b
Beryllium	7440-41-7	9.2E-01	c	n	---	b
Biphenyl, 1,1-	92-52-4	1.3E+02	---	n	---	b
Biquinoline, 2,2'-	119-91-5	1.3E+01	---	n	---	b
Bis (2-chloroethoxy) methane	111-91-1	5.9E-03	c	---	---	b
Bis (2-chloroethyl) ether	111-44-4	1.1E-03	c	---	---	b
Bis (2-chloroisopropyl) ether	108-60-1	9.5E-02	c	n	---	b
Bis (2-chloromethyl) ether	542-88-1	4.1E-06	c	---	---	b
Bis (2-ethyl-hexyl) phthalate	117-81-7	4.3E+01	c	n	---	a
Bismuth	7440-69-9	3.7E+04	---	n	---	a
Bisphenol A	80-05-7	1.5E+01	---	n	---	b
Boron	7440-42-8	7.2E+03	---	n	---	a
Bromobenzene	108-86-1	2.9E+00	---	n	---	b
Bromo-2-chloroethane, 1-	107-04-0	1.7E+00	---	n	---	b
Bromodichloromethane	75-27-4	3.3E-02	c	n	---	b
Bromoform	75-25-2	3.2E-01	c	n	---	b
Bromomethane	74-83-9	6.5E-02	---	n	---	b
Bromophenyl phenylether, 4-	101-55-3	1.8E-01	c	---	---	b
Butadiene, 1,3-	106-99-0	7.6E-01	c	n	---	d
Butanal (butyraldehyde)	123-72-8	1.6E+00	---	n	---	b
Butanoic acid (butyric acid)	107-92-6	1.2E+01	---	n	---	b
Butanol, n-	71-36-3	2.6E+00	---	n	---	b
Butoxy ethanol, 2- (Ethylene glycol monobutyl ether; EGBE)	111-76-2	1.5E+01	---	n	---	b
Butyl acetate	123-86-4	5.1E+00	---	n	---	b
Butyl acrylate	141-32-2	5.2E-01	---	n	---	b
Butyl benzyl phthalate	85-68-7	1.3E+03	---	n	> S	b
Butylate	2008-41-5	4.3E+00	---	n	---	b
Butylbenzene, n-	104-51-8	6.1E+01	---	n	---	b
Butylbenzene, sec-	135-98-8	4.2E+01	---	n	---	b

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Chemical of Concern	CAS	Chapter 327 PCL		note ¹	basis ²	
		(mg/kg)				
Butylbenzene, tert-	98-06-6	5.0E+01	---	n	---	b
Butyl ether, n- (dibutyl ether)	142-96-1	2.2E+01	---	n	---	b
Cacodylic acid	75-60-5	7.4E-02	---	n	---	b
Cadmium	7440-43-9	7.5E-01	c	n	---	b
Calcium*	7440-70-2	---	---	---	---	---
Caprolactam	105-60-2	2.3E+01	---	n	---	b
Captan	133-06-2	3.4E+01	c	n	---	b
Carbaryl	63-25-2	1.4E+01	---	n	---	b
Carbazole	86-74-8	2.3E+00	c	---	---	b
Carbofuran	1563-66-2	6.2E-02	---	n	---	b
Carbon disulfide	75-15-0	6.8E+00	---	n	---	b
Carbon tetrachloride	56-23-5	3.1E-02	c	n	---	b
Carbophenothion	786-19-6	7.4E+02	---	n	---	b
Carbosulfan	55285-14-8	1.3E+02	---	n	---	b
Carboxin	5234-68-4	4.4E+01	---	n	---	b
Chloral	75-87-6	2.7E+00	---	n	---	b
Chloral hydrate (1,1-ethanediol, 2,2,2-trichloro-)	302-17-0	2.6E+00	---	n	---	b
Chloramben (amiben; 3-amino-2,5-dichlorobenzoic acid)	133-90-4	1.9E+00	---	n	---	b
Chlordane (technical)	12789-03-6	4.8E+00	c	n	---	b
Chlordane, cis- (alpha chlordane)	5103-71-9	1.3E+01	c	n	---	a
Chlordane, gamma	57-74-9	7.3E+00	c	n	---	a
Chlorfenvinphos	470-90-6	4.6E-01	---	n	---	b
Chloride*	16887-00-6	---	---	---	---	---
Chlorine	7782-50-5	1.2E+01	---	n	---	a
Chloroaniline, p-	106-47-8	2.2E-01	---	n	---	b
Chlorobenzene	108-90-7	5.5E-01	---	n	---	b
Chlorobenzilate	510-15-6	5.7E-02	c	n	---	b
Chlorobromomethane (bromochloromethane)	74-97-5	1.5E+00	---	n	---	b
Chloro-1,3-butadiene, 2-	126-99-8	1.5E+01	---	n	---	d
Chlorodifluoromethane	75-45-6	5.8E+04	---	n	---	d
Chloroethane (ethyl chloride)	75-00-3	1.5E+01	---	n	---	b
Chloroethanol, 2-	107-07-3	9.7E+00	---	n	---	b
Chloroethoxy ethene, 2- (2-chloroethylvinylether)	110-75-8	1.4E-03	c	n	---	b
Chloroform	67-66-3	5.1E-01	c	n	---	b
Chlorohexane, 1-	544-10-5	2.0E+01	---	n	---	b
Chloromethane (methyl chloride)	74-87-3	2.0E-01	c	n	---	b
Chloro-3-methylphenol, 4-	59-50-7	2.3E+00	---	n	---	b
Chloronaphthalene, 1- (Chloronaphthalene, alpha-)	90-13-1	3.7E+02	---	n	---	b
Chloronaphthalene, 2- (chloronaphthalene, beta)	91-58-7	3.3E+02	---	n	---	b
Chloronitrobenzene, p- (1-chloro-4-nitrobenzene)	100-00-5	1.6E-01	c	---	---	b
Chlorophenol, 2-	95-57-8	8.2E-01	---	n	---	b
Chlorophenol, 3-	108-43-0	3.9E-01	---	n	---	b
Chlorophenol, 4-	106-48-9	4.2E-01	---	n	---	b
Chlorophenyl phenylether, 4-	7005-72-3	1.6E-02	c	---	---	b

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Chloropropane, 2-	75-29-6	2.7E+00	---	n	---	b
Chloro-2-propanol, 1-	127-00-4	5.3E-01	---	n	---	b
Chlorothalonil	1897-45-6	4.1E+00	c	n	---	b
Chlorotoluene, o- (2-chlorotoluene)	95-49-8	4.5E+00	---	n	---	b
Chlorotoluene, p- (4-chlorotoluene)	106-43-4	2.5E+00	---	n	---	a
Chlorpyrifos	2921-88-2	7.4E+00	---	n	---	b
Chromium (III) (total chromium)	16065-83-1/ 7440-47-3	1.2E+03	---	n	---	b
Chromium (VI)	18540-29-9	1.4E+01	c	n	---	b
Chrysene	218-01-9	5.6E+02	c	---	---	a
Cobalt	7440-48-4	6.6E+02	---	n	---	b
Copolymer acrylamide	69418-26-4	4.7E-03	---	n	---	b
Copper	7440-50-8	4.0E+02	---	n	---	e
Coronene	191-07-1	1.3E+02	---	n	---	a
Coumaphos	56-72-4	5.5E+01	---	n	---	b
Cresol, m- (3-methylphenol)	108-39-4	3.3E+00	---	n	---	b
Cresol, o- (2-methylphenol)	95-48-7	3.6E+00	---	n	---	b
Cresol, p- (4-methylphenol)	106-44-5	3.2E-01	---	n	---	b
Crotonaldehyde	123-73-9	4.8E-04	c	---	---	b
Cumene (isopropylbenzene)	98-82-8	1.7E+02	---	n	---	b
Cyanazine	21725-46-2	2.1E-03	c	n	---	b
Cyanide	57-12-5	2.0E+01	---	n	---	b
Cyanogen	460-19-5	1.2E+00	---	n	---	b
Cycloate	1134-23-2	7.6E+01	---	n	---	b
Cyclohexane	110-82-7	2.9E+03	---	n	> S	b
Cyclohexanol	108-93-0	1.5E+02	---	n	> S	b
Cyclohexanone	108-94-1	1.3E+02	---	n	---	b
Cyclotetramethylenetetranitramine (HMX)	2691-41-0	1.2E+00	---	n	---	b
Cyclotrimethylenetrinitramine (RDX)	121-82-4	1.8E-02	c	n	---	b
Cymene (isopropyltoluene)	99-87-6	1.2E+02	---	n	---	b
Cymoxanil	57966-95-7	3.0E-01	---	n	---	b
Dacthal (DCPA)	1861-32-1	2.3E+02	---	n	> S	b
Dalapon, sodium salt (2,2-dichloropropanoic acid)	75-99-0	2.9E-01	---	n	---	b
DDD	72-54-8	6.5E+00	c	---	---	b
DDE	72-55-9	5.9E+00	c	---	---	b
DDT	50-29-3	5.4E+00	c	n	---	a
Demeton	8065-48-3	6.2E-03	---	n	---	b
Diacetone alcohol (4-hydroxy-4-methyl-2-pentanone)	123-42-2	9.7E-01	---	n	---	b
Diallate	2303-16-4	5.8E-01	c	---	---	b
Diazinon	333-41-5	7.9E-02	---	n	---	b
Dibenz-a,h-acridine	226-36-8	3.7E+00	c	---	---	a
Dibenz-a,h-anthracene	53-70-3	5.5E-01	c	---	---	a
Dibenz-a,j-acridine	224-42-0	5.8E+00	c	---	---	a
Dibenzofuran	132-64-9	1.7E+01	---	n	---	b

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		(mg/kg)				
Dibenzothiophene	132-65-0	5.0E+01	---	n	---	b
Dibromochloromethane (chlorodibromomethane)	124-48-1	2.5E-02	c	n	---	b
Dibromo-3-chloropropane, 1,2-	96-12-8	8.7E-04	c	n	---	b
Dibromofluoromethane	1868-53-7	7.8E+00	---	n	---	b
Dicamba	1918-00-9	7.3E-01	---	n	---	b
Dichlorobenzene, 1,2-	95-50-1	8.9E+00	---	n	---	b
Dichlorobenzene, 1,3-	541-73-1	3.4E+00	---	n	---	b
Dichlorobenzene, 1,4-	106-46-7	1.1E+00	c	n	---	b
Dichlorobenzidine, 3,3-	91-94-1	3.1E-02	c	---	---	b
Dichlorobutane, 2,3-	7581-97-7	1.3E+00	---	n	---	b
Dichloro-2-butene, 1,4-	764-41-0	1.6E-01	c	---	---	a
Dichloro-2-butene, 1,4- trans	110-57-6	1.7E-01	c	---	---	a
Dichlorodifluoromethane	75-71-8	1.2E+02	---	n	---	b
Dichloroethane, 1,1-	75-34-3	4.6E+00	---	n	---	b
Dichloroethane, 1,2-	107-06-2	6.9E-03	c	n	---	b
Dichloroethylene, 1,1-	75-35-4	2.5E-02	---	n	---	b
Dichloroethylene, cis-1,2-	156-59-2	1.2E-01	---	n	---	b
Dichloroethylene, trans-1,2	156-60-5	2.5E-01	---	n	---	b
Dichlorophenol, 2,3-	576-24-9	2.7E-01	---	n	---	b
Dichlorophenol, 2,4-	120-83-2	1.8E-01	---	n	---	b
Dichlorophenol, 2,5-	583-78-8	2.5E-01	---	n	---	b
Dichlorophenol, 2,6-	87-65-0	3.4E-02	---	n	---	b
Dichlorophenol, 3,4-	95-77-2	1.0E+00	---	n	---	b
Dichlorophenol, 3,5-	591-35-5	6.6E-01	---	n	---	b
Dichlorophenoxyacetic acid, 2,4- (2,4-D)	94-75-7	1.3E+00	---	n	---	b
Dichlorophenoxy, 2,4- butyric acid, 4- (2,4-DB)	94-82-6	1.9E-01	---	n	---	b
Dichloroprop (2-(2,4-dichlorophenoxy) propanoic acid)	120-36-5	2.3E-01	---	n	---	b
Dichloropropane, 1,2-	78-87-5	1.1E-02	c	n	---	b
Dichloropropane, 1,3-	142-28-9	3.2E-02	c	n	---	b
Dichloropropane, 2,2-	594-20-7	6.0E-02	c	n	---	b
Dichloropropanol, 2,3-	616-23-9	1.2E-01	---	n	---	b
Dichloropropene, 1,1-	563-58-6	6.7E-02	c	n	---	b
Dichloropropene, 1,3- (mixed isomers)	542-75-6	2.0E-02	c	n	---	b
Dichloropropene, cis 1,3-	10061-01-5	3.3E-03	c	n	---	b
Dichloropropene, trans 1,3-	10061-02-6	1.8E-02	c	n	---	b
Dichlorvos	62-73-7	1.6E+01	c	n	---	a
Dicrotophos (bidrin)	141-66-2	2.3E-03	---	n	---	b
Dicyclopentadiene	77-73-6	2.5E+03	---	n	---	a
Dieldrin	60-57-1	2.4E-02	c	n	---	b
Diethanolamine	111-42-2	1.2E-02	---	n	---	b
Diethyl phthalate	84-66-2	7.8E+01	---	n	---	b
Diethylene glycol	111-46-6	4.7E+01	---	n	---	b
Diethylene glycol monobutyl ether	112-34-5	2.4E+00	---	n	---	b
Diethylhexyl adipate	103-23-1	3.0E+03	c	n	> S	b

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Diethylstilbestrol	56-53-1	2.9E-04	c --- ---	b
Diisobutylene (trimethyl-1-pentene, 2,4,4-)	107-39-1	3.0E+02	--- n ---	b
Diisopropyl ether (2,2'-oxybis-propane)	108-20-3	6.0E+00	--- n ---	b
Dimethenamid	87674-68-8	5.2E-01	--- n ---	b
Dimethoate	60-51-5	5.1E-03	--- n ---	b
Dimethoxybenzidine, 3,3'-	119-90-4	1.4E-01	c --- ---	b
Dimethylaminoazobenzene, p-	60-11-7	5.6E-01	--- n ---	b
Dimethylbenz-a-anthracene, 7,12-	57-97-6	1.7E-02	c --- ---	a
Dimethylbenzidine, 3,3'-	119-93-7	4.9E-04	c --- ---	b
Dimethylnaphthalene, 1,3-	575-41-7	3.9E+02	--- n ---	b
Dimethyl phenol, 2,4-	105-67-9	1.6E+00	--- n ---	b
Dimethylphenethylamine, alpha, alpha-	122-09-8	1.9E-01	--- n ---	b
Dimethylphthalate	131-11-3	3.1E+01	--- n ---	b
Di-n-butyl phthalate	84-74-2	1.7E+03	--- n ---	b
Dinitrobenzene, 1,3- (dinitrobenzene, 2,4-)	99-65-0	3.8E-03	--- n ---	b
Dinitrobenzene, 1,4-	100-25-4	1.4E-02	--- n ---	b
Dinitro-2-methylphenol, 4,6- (dinitro-o-cresol, 4, 6-)	534-52-1	4.7E-02	--- n ---	b
Dinitrophenol, 2,4-	51-28-5	4.7E-02	--- n ---	b
Dinitrophenol, 2,5-	329-71-5	4.8E-02	--- n ---	b
Dinitrotoluene, 2,4-	121-14-2	2.7E-03	c n ---	b
Dinitrotoluene, 2,6-	606-20-2	2.4E-03	c n ---	b
Di-n-octyl phthalate	117-84-0	1.3E+03	--- n ---	a
Dinoseb	88-85-7	1.8E-01	--- n ---	b
Dioxane 1,4-	123-91-1	8.0E-02	c --- ---	b
Diphenylamine	122-39-4	4.8E+00	--- n ---	b
Diphenylhydrazine, 1,2-	122-66-7	1.6E-02	c --- ---	b
Diphenyl oxide	101-84-8	4.6E+01	--- n ---	b
Diquat	85-00-7	1.0E-01	--- n ---	b
Disulfoton	298-04-4	1.8E-01	--- n ---	b
Diuron	330-54-1	4.6E-01	--- n ---	b
Endosulfan	115-29-7	2.3E+00	--- n ---	b
Endosulfan I	959-98-8	1.5E+01	--- n ---	b
Endosulfan II	33213-65-9	4.6E+01	--- n ---	b
Endosulfan sulfate	1031-07-8	3.8E+02	--- n ---	a
Endothall	145-73-3	2.7E-01	--- n ---	b
Endrin	72-20-8	3.8E-01	--- n ---	b
Endrin aldehyde	7421-93-4	1.9E+01	--- n ---	a
Endrin ketone	53494-70-5	1.9E+01	--- n ---	a
Epichlorohydrin	106-89-8	4.9E-02	c n ---	b
EPN (o-ethyl o-(4-nitrophenyl)phenylphosphonothioate)	2104-64-5	2.7E-02	--- n ---	b
Esfenvalerate	66230-04-4	6.2E+01	--- n > S	b
Ethalfuralin (sonolan)	55283-68-6	1.2E+01	c n ---	b
Ethanol	64-17-5	7.9E+02	--- n ---	b
Ethion	563-12-2	3.8E+00	--- n ---	b

Chapter 327 Protective Concentration Levels (PCLs) for Soils

Chemical of Concern	CAS	Chapter 327 PCL		note ¹	basis ²	
		(mg/kg)				
Ethoprop	13194-48-4	6.2E-02	c	n	---	b
Ethoxy ethanol, 2-	110-80-5	3.6E+01	---	n	---	b
Ethyl acetate	141-78-6	2.4E+01	---	n	---	b
Ethyl acrylate	140-88-5	5.9E-02	c	---	---	b
Ethyl benzene	100-41-4	3.8E+00	---	n	---	b
Ethyl dipropylthiocarbamate, S-	759-94-4	3.5E+00	---	n	---	b
Ethylene*	74-85-1	---	---	---	---	---
Ethylenediamine	107-15-3	5.1E-01	---	n	---	b
Ethylene dibromide (dibromoethane, 1,2-)	106-93-4	1.0E-04	c	n	---	b
Ethylene glycol	107-21-1	4.7E+01	---	n	---	b
Ethylene oxide	75-21-8	9.0E-04	c	---	---	b
Ethylene thiourea	96-45-7	1.9E-03	c	n	---	b
Ethyl ether	60-29-7	5.6E+00	---	n	---	b
Ethyl-1-hexanol, 2-	104-76-7	3.8E+01	---	n	---	b
Ethyl-2-hexenal, 2-	645-62-5	1.4E+01	---	n	---	b
Ethylhexyl acrylate, 2-	103-11-7	3.8E+00	c	---	---	b
Ethyl methacrylate	97-63-2	3.8E+00	---	n	---	b
Ethyl methanesulfonate	62-50-0	8.9E-03	c	---	---	b
Ethyl-2-methyl benzene, 1-	611-14-3	1.1E+02	---	n	---	b
Ethyl-4-methyl benzene, 1-	622-96-8	1.2E+02	---	n	---	b
Ethyl tert-butyl ether (2-ethyl-2-ethoxypropane)	637-92-3	4.5E-02	---	n	---	b
Famphur	52-85-7	9.1E-04	---	n	---	b
Fensulfothion	115-90-2	1.8E-01	---	n	---	b
Fenthion	55-38-9	3.9E-02	---	n	---	b
Fluoranthene	206-44-0	9.6E+02	---	n	> S	b
Fluorene	86-73-7	1.5E+02	---	n	---	b
Fluorine (soluble fluoride)	7782-41-4	4.8E+03	---	n	---	a
Fonofos	944-22-9	3.6E+00	---	n	---	b
Formaldehyde	50-00-0	4.9E+00	c	n	---	b
Formic acid	64-18-6	4.7E+01	---	n	---	b
Furan	110-00-9	4.1E-02	---	n	---	b
Furfural	98-01-1	7.4E-02	---	n	---	b
Glycidylaldehyde	765-34-4	1.1E-02	---	n	---	b
Glyphosate	1071-83-6	6.7E-01	---	n	---	b
Heptachlor	76-44-8	9.4E-02	c	n	---	b
Heptachlor epoxide	1024-57-3	2.9E-02	c	n	---	b
Heptane, n-	142-82-5	3.6E+02	---	n	---	b
Heptanoic acid, n-	111-14-8	1.2E+01	---	n	---	b
Hexachlorobenzene	118-74-1	5.6E-01	c	n	---	b
Hexachlorobutadiene	87-68-3	6.9E-01	c	n	---	b
Hexachlorocyclohexane, alpha (alpha-BHC)	319-84-6	4.0E-03	c	n	---	b
Hexachlorocyclohexane, beta (beta-BHC)	319-85-7	1.4E-02	c	---	---	b
Hexachlorocyclohexane, delta (delta-BHC)	319-86-8	8.7E-02	c	n	---	b
Hexachlorocyclohexane, gamma (lindane; gamma-BHC)	58-89-9	4.6E-03	c	n	---	b

Chapter 327 Protective Concentration Levels (PCLs) for Soils

Chemical of Concern	CAS	Chapter 327 PCL (mg/kg)	note ¹	basis ²
Hexachlorocyclohexane, techn (technical-BHC)	608-73-1	2.5E-02	c --- ---	b
Hexachlorocyclopentadiene (HCCPD)	77-47-4	7.2E+00	--- n ---	a
Hexachloroethane	67-72-1	9.2E-01	c n ---	b
Hexachlorophene	70-30-4	2.0E+01	--- n ---	a
Hexachloropropylene	1888-71-7	5.2E+00	c n ---	b
Hexane, n-	110-54-3	1.0E+02	--- n ---	b
Hexanediol, 1,6-	629-11-8	1.3E+02	--- n ---	b
Hexanoic acid	142-62-1	1.2E+01	--- n ---	b
Hexanone, 2-	591-78-6	1.9E+00	--- n ---	b
Hexazinone	51235-04-2	1.4E+00	--- n ---	b
Hexylene glycol (2-methyl-2,4-pentanediol)	107-41-5	7.4E+00	--- n ---	b
Hydrazine	302-01-2	2.9E-04	c --- ---	b
Hydrogen chloride (hydrochloric acid)*	7647-01-0	---	--- --- ---	---
Indene	95-13-6	3.6E+00	--- n ---	b
Indeno-1,2,3-cd-pyrene	193-39-5	5.7E+00	c --- ---	a
Iron*	7439-89-6	---	--- --- ---	---
Isobutyl alcohol	78-83-1	7.9E+00	--- n ---	b
Isobutylene (2-methyl-1-propene)	115-11-7	4.3E+03	--- n ---	d
Isobutyric acid (2-methylpropanoic acid)	79-31-2	1.2E+01	--- n ---	b
Isodrin	465-73-6	2.7E-02	c n ---	a
Isophorone	78-59-1	1.5E+00	c n ---	b
Isopropyl acetate	108-21-4	2.0E+00	--- n ---	b
Isopropyl alcohol	67-63-0	5.0E+00	--- n ---	b
Isosafrole	120-58-1	6.5E-02	c --- ---	b
Kelthane (dicofol)	115-32-2	3.7E+01	--- n ---	b
Kepon (chlordecone)	143-50-0	3.1E-02	c n ---	b
Lead (inorganic)	7439-92-1	1.5E+00	--- --- ---	b
Limonene, d-*	5989-27-5	---	--- --- ---	---
Lithium	7439-93-2	1.3E+03	--- n ---	a
Magnesium*	7439-95-4	---	--- --- ---	---
Malathion	121-75-5	3.3E+00	--- n ---	b
Maleic anhydride	108-31-6	3.6E+00	--- n ---	b
Maleic hydrazide	123-33-1	1.8E+01	--- n ---	b
Malononitrile	109-77-3	5.2E-04	--- n ---	b
Mancozeb	8018-01-7	9.0E-01	--- n ---	b
Manganese	7439-96-5	2.5E+01	--- n ---	e
MCPA (4-(chloro-2-methylphenoxy) acetic acid)	94-74-6	1.2E-02	--- n ---	b
	7085-19-0/			
MCPP (2-(4-chloro-2-methylphenoxy) propanoic acid)	93-65-2	2.3E-02	--- n ---	b
Merphos	150-50-5	2.0E+00	--- n ---	a
	7439-97-6/			
Mercury (pH = 4.9)	7487-94-7	3.9E-03	--- n ---	b
	7439-97-6/			
Mercury (pH = 6.8)	7487-94-7	1.0E+00	--- n ---	b

Chapter 327 Protective Concentration Levels (PCLs) for Soils

Chemical of Concern	CAS	Chapter 327 PCL		note ¹	basis ²	
		(mg/kg)				
Methacrylic acid (2-methyl-2-propenoic acid)	79-41-4	2.3E-01	---	n	---	b
Methacrylonitrile	126-98-7	2.5E-03	---	n	---	b
Methanol	67-56-1	1.2E+01	---	n	---	b
Methapyrilene	91-80-5	2.6E-04	c	---	---	b
Methomyl	16752-77-5	2.5E+00	---	n	---	b
Methoxychlor	72-43-5	6.2E+01	---	n	---	b
Methoxyethanol, 2-	109-86-4	2.9E+01	---	n	---	d
Methyl acetate (acetic acid, methyl ester)	79-20-9	2.4E+01	---	n	---	b
Methyl acrylate	96-33-3	5.2E-02	---	n	---	b
Methyl-1-butene, 2-	563-46-2	3.2E+01	---	n	---	b
Methyl-2-butene, 2-	513-35-9	1.9E+01	---	n	---	b
Methylcholanthrene, 3-	56-49-5	1.9E-01	c	---	---	a
Methyl chrysene, 1-	3351-28-8	5.8E+02	c	---	---	a
Methyl chrysene, 2-	3351-32-4	5.8E+02	c	---	---	a
Methyl chrysene, 6-	1705-85-7	5.7E+01	c	---	---	a
Methyl cyclohexane	108-87-2	7.8E+03	---	n	> S	b
Methylene-bis (2-chloroaniline) 4,4'-	101-14-4	1.1E+00	c	n	---	b
Methylene bromide (dibromomethane)	74-95-3	5.6E-01	c	n	---	b
Methylene chloride (dichloromethane)	75-09-2	6.5E-03	c	n	---	b
Methyl ethyl ketone (2-butanone)	78-93-3	1.5E+01	---	n	---	b
Methyl iodide (iodomethane)	74-88-4	5.7E-02	---	n	---	b
Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	2.5E+00	---	n	---	b
Methyl mercury	22967-92-6	8.0E+00	---	n	---	a
Methylmercury hydroxide	1184-57-2	2.4E-03	---	n	---	b
Methyl methacrylate	80-62-6	4.9E+01	---	n	---	b
Methyl methanesulfonate	66-27-3	8.9E-03	c	---	---	b
Methylnaphthalene, 1-	90-12-0	2.3E+01	---	n	---	b
Methylnaphthalene, 2-	91-57-6	4.3E+01	---	n	---	b
Methyl-5-nitroaniline, 2- (5-nitro-o-toluidine)	99-55-8	7.1E-02	c	---	---	b
Methyl parathion	298-00-0	8.5E-02	---	n	---	b
Methyl-2-pentenal, 2-	623-36-9	7.3E-04	c	---	---	b
Methyl-1-propanal, 2- (isobutyraldehyde)	78-84-2	1.0E+00	---	n	---	b
Methylpyrrolidone, N-	872-50-4	4.8E-01	---	n	---	b
Methyltetrahydrofuran, 2-	96-47-9	1.4E-01	c	n	---	b
Methyltetrahydropyran, 2-	10141-72-7	1.6E-01	c	n	---	b
Metolachlor	51218-45-2	5.5E+01	---	n	---	b
Mirex	2385-85-5	1.3E+01	---	n	---	a
Molinate	2212-67-1	9.6E-02	---	n	---	b
Molybdenum	7439-98-7	2.5E+01	---	n	---	b
Morpholine	110-91-8	7.2E+01	---	n	---	a
MTBE (methyl tert-butyl ether)	1634-04-4	1.9E-02	c	n	---	e
Naled	300-76-5	1.8E-01	---	n	---	b
Naphthalene	91-20-3	1.6E+01	---	n	---	b
Naphthoquinone, 1,4-	130-15-4	2.3E-01	---	n	---	b

Chapter 327 Protective Concentration Levels (PCLs) for Soils

Chemical of Concern	CAS	Chapter 327 PCL (mg/kg)	note ¹		basis ²	
Naphthylamine, 1-	134-32-7	4.7E+00	---	n	---	b
Naphthylamine, 2-	91-59-8	6.4E-03	c	---	---	b
Napropamide	15299-99-7	2.7E+02	---	n	---	b
Neopentyl glycol	126-30-7	7.3E+00	---	n	---	b
Nickel and compounds	7440-02-0	7.9E+01	c	n	---	b
Nitrate	14797-55-8	9.6E+00	---	n	---	b
Nitrite	14797-65-0	8.0E+03	---	n	---	a
Nitroaniline, 2-	88-74-4	1.1E-02	---	n	---	b
Nitroaniline, 3-	99-09-2	1.3E-02	c	n	---	b
Nitroaniline, 4-	100-01-6	2.8E-02	c	n	---	b
Nitrobenzene	98-95-3	4.4E-02	---	n	---	b
Nitroglycerin	55-63-0	4.8E-03	c	n	---	b
Nitrophenol, 2-	88-75-5	6.7E-02	---	n	---	b
Nitrophenol, 3-	554-84-7	1.1E-01	---	n	---	b
Nitrophenol, 4-	100-02-7	5.0E-02	---	n	---	b
Nitropropane, 2-	79-46-9	6.8E-02	c	n	---	a
Nitroquinoline-N-oxide, 4-	56-57-5	1.2E-04	c	---	---	b
Nitrosodiethanolamine, N-	1116-54-7	3.3E-04	c	---	---	b
Nitrosodiethylamine, N-	55-18-5	6.2E-06	c	---	---	b
Nitrosodimethylamine, N-	62-75-9	1.8E-05	c	---	---	b
Nitrosodi-n-butylamine, N-	924-16-3	9.4E-04	c	---	---	b
Nitrosodi-n-propylamine, N-	621-64-7	1.8E-04	c	---	---	b
Nitrosodiphenylamine, N-	86-30-6	1.4E+00	c	---	---	b
Nitroso-methyl-ethyl-amine, N-	10595-95-6	5.7E-05	c	---	---	b
Nitrosomorpholine, N-	59-89-2	1.3E-04	c	---	---	b
Nitroso-N-ethylurea, N-	759-73-9	1.0E-05	c	---	---	b
Nitrosopiperidine, N-	100-75-4	1.0E-04	c	---	---	b
Nitrosopyrrolidine, N-	930-55-2	4.2E-04	c	---	---	b
Nitrotoluene, m-	99-08-1	9.2E-01	---	n	---	b
Nitrotoluene, o-	88-72-2	9.2E-01	---	n	---	b
Nitrotoluene, p-	99-99-0	9.2E-01	---	n	---	b
Nonachlor, cis-	5103-73-1	5.6E+00	c	n	---	a
Nonachlor, trans-	39765-80-5	5.6E+00	c	n	---	a
Octamethylpyrophosphoramidate	152-16-9	4.7E-02	---	n	---	b
Octanone	106-68-3	5.5E+00	---	n	---	b
Oxamyl	23135-22-0	2.1E-01	---	n	---	b
Oxychlorane	27304-13-8	5.6E+00	c	n	---	a
Paraquat	1910-42-5	1.1E-01	---	n	---	b
Parathion (ethyl parathion)	56-38-2	1.7E+01	---	n	---	b
Pebulate	1114-71-2	1.2E+01	---	n	---	b
Pendimethalin	40487-42-1	2.5E+03	---	n	---	a
Pentachlorobenzene	608-93-5	1.2E+01	---	n	---	b
Pentachloroethane	76-01-7	1.7E-01	c	n	---	b
Pentachloronitrobenzene	82-68-8	9.2E-01	c	n	---	b

Chapter 327 Protective Concentration Levels (PCLs) for Soils

Chemical of Concern	CAS	Chapter 327 PCL		note ¹	basis ²	
		(mg/kg)				
Pentachlorophenol	87-86-5	9.2E-03	c	n	---	b
Pentadiene, 1,3-trans-	2004-70-8	6.5E+00	---	n	---	b
Pentaerythritol tetranitrate (PETN)	78-11-5	1.2E+03	---	n	---	b
Pentane	109-66-0	7.6E+01	---	n	3W	d
Pentanediol, 1,5-	111-29-5	1.2E+02	---	n	---	b
Pentanone, 2-	107-87-9	1.1E+00	---	n	---	b
Pentyne, 1-	627-19-0	6.3E+00	---	n	---	b
Perchlorate	14797-73-0	1.0E-02	---	n	---	b
Perylene	198-55-0	1.3E+03	---	n	---	a
Phenacetin	62-44-2	6.2E-01	c	---	---	b
Phenanthrene	85-01-8	2.1E+02	---	n	---	b
Phenanthridine	229-87-8	2.6E+00	---	n	---	b
Phenol	108-95-2	9.6E+00	---	n	---	b
Phenylene diamine, m-	108-45-2	1.4E-01	---	n	---	b
Phenylene diamine, p-	106-50-3	4.6E+00	---	n	---	b
Phenyl mercuric acetate	62-38-4	8.1E-03	---	n	---	b
Phorate	298-02-2	5.4E-01	---	n	---	b
Phosalone	2310-17-0	1.2E+00	---	n	---	b
Phosdrin (mevinphos)	7786-34-7	5.9E-04	---	n	---	b
Phosphine	7803-51-2	2.1E+00	---	n	---	a
Phosphorus, total*	7723-14-0	---	---	---	---	---
Phosphorus, white	7723-14-0	1.1E-02	---	n	---	b
Phthalic anhydride	85-44-9	1.2E+02	---	n	---	b
Picloram	1918-02-1	4.9E-01	---	n	---	b
Picoline, 2- (2-methylpyridine)	109-06-8	2.8E-01	---	n	---	b
Polybrominated biphenyls (PBBs)	67774-32-7	4.5E-03	c	n	---	b
Polychlorinated biphenyls (PCBs)	1336-36-3	1.1E+00	c	n	---	a
Potassium*	7440-09-7	---	---	---	---	---
Primene	68955-53-3	2.7E+01	---	n	---	b
Prometon (pramitol)	1610-18-0	4.8E+00	---	n	---	b
Pronamide	23950-58-5	9.1E+00	---	n	---	b
Propanal (propionaldehyde)	123-38-6	2.0E-01	---	n	---	b
Propanil	709-98-8	2.3E+00	---	n	---	b
Propanoic acid (propionic acid)	79-09-4	1.2E+01	---	n	---	b
Propanol, 1-	71-23-8	5.0E+00	---	n	---	b
Propargite	2312-35-8	5.5E+01	---	n	---	b
Propargyl alcohol	107-19-7	5.2E-02	---	n	---	b
Propazine	139-40-2	4.7E-01	c	n	---	b
Propham	122-42-9	9.7E-01	---	n	---	b
Propionitrile (propane nitrile)	107-12-0	9.7E-03	---	n	---	b
Propyl acetate, n-	109-60-4	2.7E+00	---	n	---	b
Propylbenzene, n-	103-65-1	2.2E+01	---	n	---	b
Propylene glycol	57-55-6	4.7E+02	---	n	---	b
Propylene glycol monomethyl ether	107-98-2	1.7E+01	---	n	---	b

Chapter 327 Protective Concentration Levels (PCLs) for Soils

Chemical of Concern	CAS	Chapter 327 PCL (mg/kg)	note ¹	basis ²
Propylene oxide	75-56-9	3.8E-03	c n ---	b
Propylene tetramer	6842-15-5	3.6E+03	--- n ---	a
Pyrene	129-00-0	5.6E+02	--- n > S	b
Pyridine	110-86-1	3.5E-02	--- n ---	b
Quinoline	91-22-5	3.8E-03	c --- ---	b
Ronnel	299-84-3	2.1E+02	--- n ---	b
Safrole	94-59-7	8.2E-02	c --- ---	b
Selenium	7782-49-2	1.1E+00	--- n ---	b
Selenourea	630-10-4	4.1E+02	--- n ---	a
Silver	7440-22-4	2.0E-01	--- n ---	e
Simazine	122-34-9	2.8E-02	c n ---	b
Sodium*	7440-23-5	---	--- --- ---	---
Sodium diethyldithiocarbamate	148-18-5	2.2E+01	c n ---	a
Sodium polyacrylate	9003-04-7	1.2E+01	--- n ---	b
Strontium	7440-24-6	3.1E+02	--- n ---	b
Strychnine	57-24-9	1.9E-02	--- n ---	b
Styrene	100-42-5	1.6E+00	--- n ---	b
Sulfate*	14808-79-8	---	--- --- ---	---
Sulfide*	18496-25-8	---	--- --- ---	---
Sulfolane	126-33-0	4.7E-04	--- n ---	b
Sulfur*	7704-34-9	---	--- --- ---	---
TCDD, 2,3,7,8- (dioxin)	1746-01-6	1.0E-03	--- --- ---	a
Tebuconazole	107534-96-3	1.6E+01	--- n ---	b
Tebuthiuron	34014-18-1	2.7E+00	--- n ---	b
Terbufos	13071-79-9	1.7E-01	--- n ---	b
Tert-amyl-methyl ether (TAME)	994-05-8	1.9E+00	--- n ---	b
Tert-butyl alcohol (2-methyl-2-propanol)	75-65-0	2.3E+00	--- n ---	b
Tetrachlorobenzene, 1,2,3,4-	634-66-2	6.0E+00	--- n ---	b
Tetrachlorobenzene, 1,2,3,5-	634-90-2	9.4E-01	--- n ---	b
Tetrachlorobenzene, 1,2,4,5-	95-94-3	2.4E-01	--- n ---	b
Tetrachloroethane, 1,1,1,2-	630-20-6	7.1E-01	c n ---	b
Tetrachloroethane, 1,1,2,2-	79-34-5	1.2E-02	c n ---	b
Tetrachloroethylene (perchloroethylene)	127-18-4	2.5E-02	c n ---	b
Tetrachlorophenol, 2,3,4,5-	4901-51-3	7.4E+00	--- n ---	b
Tetrachlorophenol, 2,3,4,6-	58-90-2	2.2E+00	--- n ---	b
Tetrachlorophenol, 2,3,5,6-	935-95-5	1.1E+00	--- n ---	b
Tetradifon	116-29-0	4.4E+01	--- n ---	b
Tetraethyl dithiopyrophosphate (sulfotep)	3689-24-5	1.9E-01	--- n ---	b
Tetraethyl lead	78-00-2	2.5E-04	--- n ---	b
Tetrahydrofuran	109-99-9	1.2E-01	c n ---	b
Tetrahydropyran	142-68-7	1.4E-01	c n ---	b
Thallium and compounds (as thallium chloride)	7791-12-0	8.7E-01	--- n ---	b
Thiofanox	39196-18-4	1.6E-02	--- n ---	b
Thionazin	297-97-2	5.5E-03	--- n ---	b

Chapter 327 Protective Concentration Levels (PCLs) for Soils

Chemical of Concern	CAS	Chapter 327 PCL		note ¹	basis ²	
		(mg/kg)				
Thiophanate-methyl	23564-05-8	2.2E+00	---	n	---	b
Thiram	137-26-8	1.8E+00	---	n	---	b
Tin	7440-31-5	1.8E+04	---	n	---	b
Titanium	7440-32-6	1.0E+06	---	n	---	a
Toluene	108-88-3	4.1E+00	---	n	---	b
Toluenediamine, 2,4-	95-80-7	7.6E-03	c	---	---	b
Toluenediamine, 2,6-	823-40-5	4.8E+00	---	n	---	b
Toluene diisocyanate, 2,4/2,6-	26471-62-5	7.5E+01	---	n	---	a
Toluidine, o-	95-53-4	1.9E-02	c	---	---	b
Toluidine, p-	106-49-0	7.0E-03	c	---	---	b
Toxaphene	8001-35-2	1.2E+00	c	---	---	a
TP Silvex, 2,4,5-	93-72-1	2.6E+00	---	n	---	b
Triademenol	55219-65-3	4.2E+00	---	n	---	b
Triallate	2303-17-5	9.5E+00	---	n	---	b
Triaminotrinitrobenzene (TATB)	3058-38-6	3.2E-02	c	n	---	b
Tributyltin oxide	56-35-9	3.9E-01	---	n	---	a
Trichlorobenzene, 1,2,3-	87-61-6	1.3E+01	---	n	---	b
Trichlorobenzene, 1,2,4-	120-82-1	2.4E+00	---	n	---	b
Trichlorobenzene, 1,3,5-	108-70-3	3.7E+00	---	n	---	b
Trichloroethane, 1,1,1-	71-55-6	8.1E-01	---	n	---	b
Trichloroethane, 1,1,2-	79-00-5	1.0E-02	c	n	---	b
Trichloroethylene	79-01-6	1.7E-02	c	n	---	b
Trichlorofluoromethane	75-69-4	6.4E+01	---	n	---	b
Trichloronate	327-98-0	6.2E+01	---	n	---	b
Trichlorophenol, 2,3,4-	15950-66-0	3.0E+01	---	n	---	b
Trichlorophenol, 2,3,5-	933-78-8	1.4E+01	---	n	---	b
Trichlorophenol, 2,3,6-	933-75-5	1.4E+01	---	n	---	b
Trichlorophenol, 2,4,5-	95-95-4	1.7E+01	---	n	---	b
Trichlorophenol, 2,4,6-	88-06-2	3.0E-01	c	---	---	b
Trichlorophenol, 3,4,5-	609-19-8	1.6E+02	---	n	---	b
Trichlorophenoxyacetic acid, 2,4,5-	93-76-5	4.9E-01	---	n	---	b
Trichloropropane, 1,1,2-	598-77-6	7.3E-01	---	n	---	b
Trichloropropane, 1,2,3-	96-18-4	1.1E-03	c	n	---	b
Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1	4.0E+04	---	n	> S	b
Triethanolamine	102-71-6	4.7E+00	---	n	---	b
Triethylamine	121-44-8	5.5E+01	---	n	---	a
Triethylene glycol	112-27-6	7.0E+01	---	n	---	b
Triethylphosphorothioate, O, O, O-	126-68-1	2.2E-03	---	n	---	b
Trifluralin	1582-09-8	3.3E+01	c	n	---	b
Trimethylamine	75-50-3	7.6E+01	---	n	---	a
Trimethylbenzene, 1,2,3-	526-73-8	1.6E+01	---	n	---	b
Trimethylbenzene, 1,2,4-	95-63-6	2.4E+01	---	n	---	b
Trimethylbenzene, 1,3,5-	108-67-8	2.7E+01	---	n	---	b
Trinitrobenzene, 1,3,5-	99-35-4	9.1E-01	---	n	---	b

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Chemical of Concern	CAS	Chapter 327 PCL (mg/kg)	note ¹	basis ²
Trinitrophenylmethylnitramine (tetryl; nitramine)	479-45-8	1.4E+00	--- n ---	b
Trinitrotoluene, 2,4,6-	118-96-7	8.6E-02	c n ---	b
Uranium (soluble salts)	7440-61-1	2.2E+02	--- n ---	a
Valeric acid (pentanoic acid)	109-52-4	1.2E+01	--- n > S	b
Vanadium	7440-62-2	2.9E+02	--- n ---	a
Vernam	1929-77-7	1.4E+00	--- n ---	b
Vinyl acetate	108-05-4	2.7E+01	--- n ---	b
Vinyl chloride	75-01-4	1.1E-02	c n ---	b
Vinylcyclohexane	695-12-5	7.9E+01	--- n ---	a
Warfarin	81-81-2	1.4E-01	--- n ---	b
Xylene, m-	108-38-3	5.3E+01	--- n ---	b
Xylene, o-	95-47-6	3.5E+01	--- n ---	b
Xylene, p-	106-42-3	7.5E+01	--- n ---	b
Xylenes	1330-20-7	6.1E+01	--- n ---	b
Zinc	7440-66-6	8.0E+02	--- n ---	e
6 C aliphatics (TPH)	NA	8.6E+01	--- n ---	b
>6-8 C aliphatics (TPH)	NA	2.1E+02	--- n ---	b
>8-10 C aliphatics (TPH)	NA	1.8E+03	--- n > S	b
>10-12 C aliphatics (TPH)	NA	3.6E+03	--- n ---	a
>12-16 C aliphatics (TPH)	NA	4.3E+03	--- n ---	a
>16-21 C aliphatics (TPH)	NA	1.3E+05	--- n ---	a
>16-21 C, >21-35 C aliphatics (TPH) (for transformer mineral oil releases only)	NA	1.1E+05	--- n ---	a
>7-8 C aromatics (TPH)	NA	1.0E+01	--- n ---	b
>8-10 C aromatics (TPH)	NA	3.3E+01	--- n ---	b
>10-12 C aromatics (TPH)	NA	5.0E+01	--- n ---	b
>12-16 C aromatics (TPH)	NA	9.9E+01	--- n ---	b
>16-21 C aromatics (TPH)	NA	2.3E+02	--- n > S	b
>21-35 C aromatics (TPH)	NA	1.8E+03	--- n > S	b
Transformer mineral oil	NA	2.0E+04	--- n ---	a

Footnotes

¹For discussion on use of values in this table, please refer to the May 27, 2003 memorandum entitled *Coordination of Remediation Activities Related to Emergency Response and Historical Releases*. The note column indicates whether the COC has carcinogenic and/or noncarcinogenic effects. If there are more than 10 carcinogens or more than 10 noncarcinogens present at a site, Chapter 327 PCLs no longer apply and the cumulative criteria specified in the TRRP rule apply. See TCEQ guidance document *Risk Levels, Hazard Indices, and Cumulative Adjustment (RG-366/TRRP-18)* for further information. Other notes: > S = solubility limit exceeded during calculation; < GW_{ing} = less than ^{GW}GW_{ing} value.

Chapter 327 Protective Concentration Levels (PCLs) for Soils

Chemical of Concern	CAS	Chapter 327 PCL (mg/kg)	note ¹	basis ²
<p>²Basis denotes which 30-acre residential human health soil PCL (from Chapter 350 PCL Table 1) was the lowest PCL for the particular COC and was thus selected as the Chapter 327 PCL. Legend: a = ^{Tot}Soil_{Comb}; b = ^{GW}Soil_{Ing}; c = ^{Air}Soil_{Inh-v}; d = ^{Air}GW-Soil_{Inh-v}; e = ^{GW}Soil_{Ing} for secondary MCL.</p> <p>*These compounds are not of concern from a human health standpoint, therefore calculation of human health-based values is not required. However, aesthetics and ecological criteria would still apply. See table entitled "Compounds for which Calculation of a Human Health PCL is Not Required" available on the TCEQ website at http://www.tnrcc.state.tx.us/permitting/trrp.htm.</p> <p>All values capped at 1E+06</p>				