

White Paper
Chapter NR 720 Revisions
Options for Calculating Soil Cleanup Standards

Background. WDNR previously made recommendations to the Technical Focus Group (TFG) on 2 important revisions to ch. NR 720 (Soil Cleanup Levels), Wis. Adm. Code. This included: 1.) Eliminating Tables 1 and 2 from ch. NR 720 – in favor of determining direct-contact residual contaminant levels (d-c RCL's) using the appropriate algorithms, and 2.) Using NR 140 Enforcement Standards instead of PAL's when determining soil to groundwater RCL's (gw RCL's). TFG members generally supported the proposed changes.

Most RR project managers and consultants are familiar with the EPA-sponsored web-calculator detailed in RR-682. This issue paper summarizes the options for generating d-c RCL's particularly focusing on 2 web-calculator options that are currently available.

Issue Needing Resolution: Which Calculator-Option Should be used in Wisconsin to Determine Direct-Contact RCL's

Option-1 – Continue to use the web-calculator in the RR-682 guidance. This web-calculator is based on 1996 EPA Soil Screening Level (SSL) guidance. For direct-contact, the SSL web-calculator will determine several individual pathway-specific values including ingestion and inhalation, but will not determine dermal levels. The soil saturation concentration or Csat can also be calculated and then the lowest concentration for an individual contaminant becomes the d-c reference RCL. The link to this web calculator is: <http://rais.ornl.gov/epa/ssl1.shtml>

Option-2 – Use a new web calculator that became available in late 2008 which is a part of EPA's Regional Screening Level (RSL) website. Several EPA Regions (3, 6 and 9) which formerly had their own soil numbers and calculators now uniformly refer to the RSL website. The reference levels from this new web-calculator are summarized in RSL tables that are updated every 6 months. The calculator determines ingestion, inhalation, and (if information exists) dermal direct-contact levels. The calculator then combines them into a single level that will be less than the least of the individual-pathway levels. The link to this web calculator is: http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search

Option-3 – Develop a Wisconsin specific web-calculator. Many states now provide state-specific spreadsheets or methodologies for assessing human-health risks and hazards from contaminated soil. Several examples are provided below at the following links:

CA: <http://oehha.ca.gov/risk/pdf/Hazard-Risk%20Calculator11-04.xls>;

IN: http://www.state.in.us/idem/files/2006_risc_default_closure_tool.xls;

MN: <http://www.pca.state.mn.us/publications/c-r1-01.xls>;

WA: http://www.ecy.wa.gov/programs/tcp/tools/mtca_11/MTCASGL11.xls;

The advantage of this approach would be that WDNR would have more direct control over the input values and assumptions used in the calculations. However, this Option would require significant staff time to support the creation and maintenance of the

databases containing the physical-chemical properties and toxicity values for contaminants.

Methodology. In order to determine direct-contact RCL's the first step is to calculate a list of reference RCL's for both the non-industrial and industrial land use classifications. The levels are calculated based on the following:

- 1.) Land-use-specific standard exposure assumptions,
- 2.) Chemical-specific physical and toxicity factors,
- 3.) Site-specific soil-property factors,
- 4.) A target cancer risk (TCR) of 1×10^{-6} (1:1million) or a non-cancer target hazard quotient (THQ) of 1 – whichever will provide the lowest concentration, and
- 5.) For volatile contaminants, the soil saturation concentration (or "C_{sat}").

When a site has only a single contaminant, then the reference RCL (i.e. table value) can be used as the d-c RCL for the site. However, in accordance with s. NR 720.11(3) and s. NR 720.19(5), when multiple contaminants are present further evaluation is necessary to ensure that the cumulative cancer risk does not exceed 1×10^{-5} and the total hazard index (HI) does not exceed 1.

The calculation of site-specific groundwater-protective RCL's is a separate determination from direct-contact RCL's. Since direct-contact RCL's are utilized more frequently, it is recommended that the calculator-option to determine soil to groundwater RCL's be whichever of the above options is selected for d-c RCL's.

Discussion of Options.

Option-1 is discussed in detail in RR-682 and is already familiar to RR Project Managers and Consultants. If this Option is retained for determining reference RCL's, the guidance will be revised by replacing the non-industrial TCR and THQ generic default values of 1×10^{-7} and 0.2 to reference values of 1×10^{-6} and 1, respectively. In addition, references to compliance with the PAL will be replaced with language that references the ES.

Option-2 integrates the different pathways (ingestion, inhalation and dermal) into a single level. Basically, the RSL value is generated as follows: $1/\text{RSL} = (1/\text{Ingestion} + 1/\text{Inhalation} + 1/\text{Dermal})$, with the Inhalation level having both the vapor and particulate levels ($1/\text{Inhalation} = 1/\text{Vapor} + 1/\text{Particulate}$). The dermal-pathway is evaluated, but because dermal-related toxicity is tied to ingestion toxicity rather than to inhalation, few volatile compounds have dermal levels. Compared to Option-1's pathway-independent levels, Option-2 will, in many cases, result in lesser d-c reference RCL's. In addition, Option-2 utilizes mutagenic equations for several compounds (e.g. PAH's) for the non-industrial land use scenario which can reduce the final concentrations for some compounds further.

There are a number of contaminants where the Option-2 results will be greater than Option-1. The reason is two-fold: 1) differences in how C_{sat} and the inhalation-pathway equations are evaluated; and 2) difference in the toxicity values used.

Regarding Csat, Option-2 has a stricter definition of what constitutes a volatile contaminant, and since Csat only has relevance for volatile compounds, Option-2 will evaluate Csat for fewer chemicals. For example, under Option-1 most pesticides have Csat values, but are not considered volatiles under Option-2. In addition Option-2 will not evaluate a volatilization factor for non-volatiles, so many inhalation toxicity values have a limited effect in determining Option-2 results. For instance, formaldehyde is not an Option-2 volatile, so its result is very high compared to Option-1.

The other major difference between Options 1 and 2 has to do with the toxicity value sources used. The Option-1 calculator uses “draft IRIS” toxicity values while the Option-2 calculator does not. The Option-2 calculator relies on a systematic hierarchy of sources (IRIS, then PPRTV, then ATSDR, then Cal/EPA, then HEAST) of toxicity values. Option-1 predates the availability of both PPRTV and Cal/EPA values and therefore does not account for these information sources.

In order to provide as much information as possible, a side-by-side comparison of the results from both Options are included as Appendices. Appendix A (Non-industrial) and Appendix B (Industrial) are multi-page tables with d-c reference RCL’s for nearly 700 chemicals determined using the algorithms for both Option-1 (SSL) and Option-2 (RSL). Since Option-2 generally has lower values, the compounds where Option-2 values are higher are highlighted in red. The comparison tables were generated in July, 2009. Updates were done on the RSL website in December, 2009, and as a result several of the Option-2 values may be different now.

Recommendation: WDNR recommends using Option-2. WDNR feels this is the best alternative since updates are completed by Oak Ridge National Lab (EPA’s contractor) to the calculator’s databases every 6 months and technical support is readily provided by EPA when questions or issues are identified.

Non-industrial d-c Reference RCLs: Option-1 / Option-2 COMPARISON

Generally, Option-2 (RSL) will be less than Option-1 (SSL). Exceptions are noted in red.

If Contaminant is in red font, Option-2 > Option-1	(All values are in mg/kg.)		If in red font, Option-2 > 10 x Option-1
Contaminant	CAS	Option-1 (SSL)	Option-2 (RSL)
Acenaphthene	83-32-9	4,690.	3,440.
Acenaphthylene	208-96-8		593.
Acephate	30560-19-1	73.4	55.8
Acetaldehyde	75-07-0	17.	14.5
Acetochlor	34256-82-1	1,560.	1,220.
Acetone	67-64-1	70,400.	63,100.
Acetone Cyanohydrin	75-86-5	235.	212.
Acetonitrile	75-05-8	1,900.	1,200.
Acetophenone	98-86-2	1,400.	2,310.
Acetylaminofluorene, 2-	53-96-3		0.128
Acrolein	107-02-8	0.26	0.222
Acrylamide	79-06-1	0.142	0.108
Acrylic Acid	79-10-7	270.	29,900.
Acrylonitrile	107-13-1	0.38	0.302
Alachlor	15972-60-8	7.98	8.67
ALAR	1596-84-5	10,000.	27.
Aldicarb	116-06-3	78.2	61.1
Aldicarb Sulfone	1646-88-4	78.2	61.1
Aldrin	309-00-2	0.0376	0.0286
Allyl	74223-64-6	19,600.	15,300.
Allyl Alcohol	107-18-6	391.	305.
Allyl Chloride	107-05-1	2.5	0.948
Aluminum	7429-90-5	78,200.	77,400.
Aluminum Phosphide	20859-73-8	31.3	31.3
Amdro	67485-29-4	23.5	18.3
Ametryn	834-12-8	704.	550.
Aminobiphenyl, 4-	92-67-1		0.0231
Aminophenol, m-	591-27-5	5,480.	4,890.
Aminophenol, p-	123-30-8		1,220.
Amitraz	33089-61-1	196.	153.
Ammonium Perchlorate	7790-98-9	54.8	54.8
Ammonium Sulfamate	7773-06-0	15,600.	15,600.
Aniline	62-53-3	112.	85.2
Anthracene	120-12-7	23,500.	17,200.
Antimony (metallic)	7440-36-0	31.3	31.3
Antimony Pentoxide	1314-60-9	39.1	39.1
Antimony Potassium Tartrate	11071-15-1		70.4
Antimony Tetroxide	1332-81-6	31.3	31.3
Apollo	74115-24-5	1,020.	794.
Aramite	140-57-8	25.5	19.4
Aroclor 1016	12674-11-2		3.93
Aroclor 1221	11104-28-2		0.183
Aroclor 1232	11141-16-5		0.183
Aroclor 1242	53469-21-9		0.221
Aroclor 1248	12672-29-6		0.221
Aroclor 1254	11097-69-1		0.221
Aroclor 1260	11096-82-5		0.221
Arsenic, Inorganic	7440-38-2	0.426	0.389
Arsine	7784-42-1	70,900.	70,900.
Assure	76578-14-8	704.	550.

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608/267-3539

Appendix A

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If Contaminant is in red font, Option-2 > Option-1	(All values are in mg/kg.)		If in red font, Option-2 > 10 x Option-1
Contaminant	CAS	Option-1 (SSL)	Option-2 (RSL)
Asulam	3337-71-1	3,910.	3,060.
Atrazine	1912-24-9	2.88	2.11
Avermectin B1	65195-55-3	31.3	24.4
Azobenzene	103-33-3	5.81	5.14
Barium	7440-39-3	15,600.	15,300.
Baygon	114-26-1	313.	244.
Bayleton	43121-43-3	2,350.	1,830.
Baythroid	68359-37-5	1,960.	1,530.
Benefin	1861-40-1	23,500.	18,300.
Benomyl	17804-35-2	3,910.	3,060.
Bentazon	25057-89-0	2,350.	1,830.
Benz[a]anthracene	56-55-3	0.875	0.148
Benzaldehyde	100-52-7	7,820.	1,950.
Benzene	71-43-2	1.1	1.5
Benzene, Ethyldimethyl	29224-55-3		151.
Benzene, Ethylmethyl	25550-14-5		386.
Benzene, Methylpropenyl	768-00-3		443.
Benzene, Trimethyl	25551-13-7		211.
Benzenethiol	108-98-5	0.782	0.782
Benidine	92-87-5	0.00278	0.000501
Benzo[a]pyrene	50-32-8	0.0875	0.0148
Benzo[b]fluoranthene	205-99-2	0.875	0.148
Benzo[k]fluoranthene	207-08-9	8.75	1.48
Benzo[ghi]perylene	125-28-9	0.0491	0.0491
Benzotrifluoride	98-07-7	0.0491	0.0491
Benzyl Alcohol	100-51-6	15,000.	30,600.
Benzyl Chloride	100-44-7	3.76	1.31
Beryllium and compounds	7440-41-7	156.	156.
Bidrin	141-66-2	7.82	6.11
Bifenox	42576-02-3		550.
Biphenthrin	82657-04-3	1,170.	917.
Biphenyl, 1,1'-	92-52-4	570.	261.
Bis(2-chloro-1-methylethyl) ether	108-60-1	9.12	4.17
Bis(2-chloroethoxy)methane	111-91-1		183.
Bis(2-chloroethyl)ether	111-44-4	0.33	0.227
Bis(2-ethylhexyl)phthalate	117-81-7	45.6	34.7
Bis(chloromethyl)ether	542-88-1	0.0015	0.000359
Bisphenol A	80-05-7	3,910.	3,060.
Boron And Borates Only	7440-42-8	15,600.	15,600.
Bromate	15541-45-4		0.913
Bromo-2-chloroethane, 1-	107-04-0		2,550.
Bromobenzene	108-86-1	770.	126.
Bromochloromethane	74-97-5		4,240.
Bromodichloromethane	75-27-4	10.3	0.383
Bromofluorobenzene, p-	460-00-4		375.
Bromoform	75-25-2	72.	61.5
Bromomethane	74-83-9	13.	10.5
Bromophos	2104-96-3	391.	306.
Bromotrifluoromethane	75-62-7		121.
Bromoxynil	1689-84-5	83.	1,220.
Bromoxynil Octanoate	1689-99-2	1,560.	1,220.

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Contaminant	CAS	Option-1 (SSL)	Option-2 (RSL)
Butadiene, 1,3-	106-99-0	0.000082	0.0675
Butanol, N-	71-36-3	7,820.	6,110.
Butyl Benzyl Phthlate	85-68-7	930.	256.
Butylacetate	123-86-4		1,910.
Butylate	2008-41-5	3,910.	3,060.
Butylbenzene, n-	104-51-8		127.
Butylbenzene, sec-	135-98-8		171.
Butylbenzene, tert-	98-06-6		215.
Butylchloride, t-	507-20-0		1,410.
Butylphthalyl Butylglycolate	85-70-1	640.	61,100.
Cacodylic Acid	75-60-5	2.55	1,220.
Cadmium (Diet)	7440-43-9	78.2	70.
Calcium Cyanide	592-01-8	3,130.	3,130.
Caprolactam	105-60-2	39,100.	30,600.
Captafol	2425-06-1	74.3	3.24
Captan	133-06-2	15.	211.
Carbaryl	63-25-2	140.	6,110.
Carbofuran	1563-66-2	110.	306.
Carbon Disulfide	75-15-0	720.	257.
Carbon Tetrachloride	56-23-5	0.45	0.342
Carbosulfan	55285-14-8	782.	611.
Carboxin	5234-68-4	7,820.	6,110.
Chloral Hydrate	302-17-0		6,110.
Chloramben	133-90-4	1,170.	917.
Chloranil	118-75-2	1.58	1.2
Chlordane	12789-03-6		1.62
Chlordecone (Kepone)	143-50-0		0.0303
Chlorfenvinphos	470-90-6		42.8
Chlorimuron, Ethyl-	90982-32-4	1,560.	1,220.
Chlorine	7782-50-5	7,820.	7,530.
Chlorine Dioxide	10049-04-4	2,350.	2,330.
Chlorite (Sodium Salt)	7758-19-2		2,350.
Chloro-1,1-difluoroethane, 1-	75-68-3	3,400.	1,190.
Chloro-1,3-butadiene, 2-	126-99-8	120.	11.8
Chloro-2-methylaniline HCl, 4-	3165-93-3	1.39	1.06
Chloro-2-methylaniline, 4-	95-69-2	1.1	1.8
Chloroacetic Acid	79-11-8	156.	122.
Chloroacetophenone, 2-	532-27-4	11.	42,500.
Chloroaniline, p-	106-47-8	313.	2.43
Chlorobenzene	108-90-7	180.	396.
Chlorobenzilate	510-15-6	2.37	4.41
Chlorobenzotrifluoride, 4-	98-56-6	1,560.	220.
Chlorobutane, 1-	109-69-3	31,300.	785.
Chlorobutane, 2-	78-86-4		693.
Chlorocyclopentadiene	41851-50-7		1,110.
Chlorodifluoromethane	75-45-6	58,000.	1,730.
Chloroethylvinyl ether, 2-	110-75-8		92.9
Chloroform	67-66-3	0.38	0.415
Chloromethane	74-87-3	2.9	165.
Chloromethyl Methyl Ether	107-30-2		0.0236

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Contaminant	CAS	Option-1 (SSL)	Option-2 (RSL)
Chloronaphthalene, alpha-	90-13-1		319.
Chloronaphthalene, Beta-	91-58-7	160.	210.
Chloronitrobenzene, o-	88-73-3	0.5	50.
Chloronitrobenzene, p-	100-00-5		61.1
Chlorophenol, 2-	95-57-8	391.	391.
Chlorophenyl Methyl Sulfide, p-	123-09-1		611.
Chloropropane, 2-	75-29-6	360.	1,380.
Chlorothalonil	1897-45-6	58.1	157.
Chlorotoluene, o-	95-49-8	1,560.	1,040.
Chlorotoluene, p-	106-43-4	5,480.	290.
Chlorpropham	101-21-3	15,600.	12,200.
Chlorpyrifos	2921-88-2	235.	183.
Chlorpyrifos Methyl	5598-13-0	782.	611.
Chlorsulfuron	64902-72-3	3,910.	3,060.
Chlorthiophos	60238-56-4	62.6	48.9
Chromium VI (particulates)	18540-29-9	235.	39.4
Chromium(VI), Aerosol Mists	7738-94-5		1,280.
Chromium, Total (1:6 ratio Cr VI : Cr III)	7440-47-3	235.	276.
Chrysene	218-01-9	87.5	14.8
Cobalt	7440-48-4	1,180.	23.4
Copper	7440-50-8		3,130.
Copper Cyanide	544-92-3	391.	391.
Cresol, m-	108-39-4	3,500.	3,060.
Cresol, o-	95-48-7	3,910.	3,060.
Cresol, p-	106-44-5	391.	306.
Cresols	1319-77-3		7,640.
Crotonaldehyde, trans-	123-73-9	0.336	0.336
Cumene	98-82-8	850.	312.
Cyanazine	21725-46-2	0.76	0.578
Cyanide (CN-)	57-12-5	1,560.	1,560.
Cyanogen	460-19-5	1,400.	3,130.
Cyanogen Bromide	506-68-3	7,040.	7,040.
Cyanogen Chloride	506-77-4	3,910.	3,910.
Cyclohexane	110-82-7	140.	124.
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3	27.8	21.1
Cyclohexylamine	108-91-8	15,600.	12,200.
Cyclopentadiene	542-92-7		329.
Cyhalothrin/karate	68085-85-8	391.	306.
Cypermethrin	52315-07-8	782.	611.
Cyromazine	66215-27-8	587.	458.
Dacthal	1861-32-1	782.	611.
Dalapon	75-99-0	2,350.	1,830.
DDD	72-54-8	2.66	2.02
DDE, p,p'-	72-55-9	1.88	1.43
DDT	50-29-3	1.88	1.72
Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'-(BDE-209)	1163-19-5	782.	428.
Decane	124-18-5		2.62
Demeton	8065-48-3	3.13	2.44
Di(2-ethylhexyl)adipate	103-23-1	532.	405.
Diallate	2303-16-4	10.5	7.96

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If Contaminant is in red font, Option-2 > Option-1	(All values are in mg/kg.)		If in red font, Option-2 > 10 x Option-1
Contaminant	CAS	Option-1 (SSL)	Option-2 (RSL)
Diazinon	333-41-5	70.4	42.8
Dibenz[a,h]anthracene	53-70-3	0.0875	0.0148
Dibenzofuran	132-64-9	210.	210.
Dibenzothiophene	132-65-0		99.7
Dibromo-3-chloropropane, 1,2-	96-12-8	0.456	0.00767
Dibromobenzene, 1,4-	106-37-6	782.	611.
Dibromochloromethane	124-48-1	7.6	0.92
Dibromoethane, 1,2-	106-93-4	0.00014	0.0455
Dibromomethane (Methylene Bromide)	74-95-3	782.	782.
Dibutyl Phthalate	84-74-2	2,300.	6,110.
Dicamba	1918-00-9	2,350.	1,830.
Dichloro-2-butene, 1,4-	764-41-0	0.027	0.00271
Dichloro-2-butene, cis-1,4-	1476-11-5		0.0029
Dichloro-2-butene, trans-1,4-	110-57-6		0.0101
Dichloroacetic Acid	79-43-6	12.8	9.71
Dichloroaniline, 3,4-	95-76-1		75.4
Dichlorobenzene, 1,2-	95-50-1	600.	222.
Dichlorobenzene, 1,3-	541-73-1		341.
Dichlorobenzene, 1,4-	106-46-7	26.6	3.56
Dichlorobenzidine, 3,3'-	91-94-1	1.42	1.08
Dichlorodifluoromethane	75-71-8	350.	254.
Dichlorodiisopropyl ether, 2,2'-	39638-32-9	3,130.	9.22
Dichloroethane, 1,1-	75-34-3	1,700.	4.63
Dichloroethane, 1,2-	107-06-2	0.49	0.6
Dichloroethylene, 1,1-	75-35-4	400.	333.
Dichloroethylene, 1,2- (Mixed Isomers)	540-59-0	704.	704.
Dichloroethylene, 1,2-cis-	156-59-2	782.	782.
Dichloroethylene, 1,2-trans-	156-60-5	1,560.	151.
Dichlorophenol, 2,4-	120-83-2	235.	183.
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7	782.	686.
Dichlorophenoxybutyric Acid, 4-(2,4-	94-82-6	626.	489.
Dichloropropane, 1,2-	78-87-5	9.39	1.26
Dichloropropane, 1,3-	142-28-9	1,560.	1,560.
Dichloropropanol, 2,3-	616-23-9	235.	183.
Dichloropropene, 1,3-	542-75-6	1.5	2.14
Dichloropropene, 2,3-	78-88-6		1,160.
Dichloropropene, cis-1,3-	10061-01-5		1,700.
Dichloropropene, trans-1,3-	10061-02-6		1,660.
Dichlorvos	62-73-7	2.2	1.67
Dicyclopentadiene	77-73-6	6.6	39.5
Dieldrin	60-57-1	0.0399	0.0303
Diethyl Phthalate	84-66-2	2,000.	48,900.
Diethylene Glycol Monoethyl Ether	112-34-5	782.	611.
Diethylene Glycol Monoethyl Ether	111-90-0	1,100.	3,660.
Diethylformamide	617-84-5	31.3	61.1
Diethylphosphorodithioate	298-06-6		198.
Diethylstilbestrol	56-53-1	0.000136	0.00139
Difenzoquat	43222-48-6	6,260.	4,890.
Difflubenzuron	35367-38-5	1,560.	1,220.
Difluoroethane, 1,1-	75-37-6	56,700,000,000.	1,500.

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Non-industrial d-c Reference RCLs: Option-1 / Option-2 COMPARISON

Generally, Option-2 (RSL) will be less than Option-1 (SSL). Exceptions are noted in red.

If Contaminant is in red font, Option-2 > Option-1	(All values are in mg/kg.)		If in red font, Option-2 > 10 x Option-1
Contaminant	CAS	Option-1 (SSL)	Option-2 (RSL)
Diisopropyl Ether	108-20-3	1,600.	1,590.
Diisopropyl Methylphosphonate	1445-75-6	6,260.	432.
Dimethipin	55290-64-7	1,560.	1,220.
Dimethoate	60-51-5	15.6	12.2
Dimethoxybenzidine, 3,3'-	119-90-4	0.278	34.7
Dimethyl methylphosphonate	756-79-6		286.
Dimethyl Sulfide	75-18-3		5,610.
Dimethylamino azobenzene [p-]	60-11-7		0.106
Dimethylaniline HCl, 2,4-	21436-96-4	1.1	0.837
Dimethylaniline, 2,4-	95-68-1	0.852	0.647
Dimethylaniline, N,N-	121-69-7	156.	156.
Dimethylbenz(a)anthracene, 7,12-	57-97-6		0.00181
Dimethylbenzidine, 3,3'-	119-93-7	0.0694	0.0441
Dimethylformamide	68-12-2	6,100.	6,110.
Dimethylhydrazine, 1,2-	540-73-8		0.000883
Dimethylphenol, 2,4-	105-67-9	1,560.	1,220.
Dimethylphenol, 2,6-	576-26-1	46.9	36.7
Dimethylphenol, 3,4-	95-65-8	78.2	61.1
Dimethylterephthalate	120-61-6	7,820.	6.06
Dinitrobenzene, 1,2-	528-29-0	7.82	6.11
Dinitrobenzene, 1,3-	99-65-0	7.82	6.11
Dinitrobenzene, 1,4-	100-25-4	7.82	6.11
Dinitro-o-cresol, 4,6-	534-52-1	7.82	6.11
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5	156.	122.
Dinitrophenol, 2,4-	51-28-5	156.	122.
Dinitrotoluene Mixture, 2,4/2,6-	25321-14-6	0.939	0.714
Dinitrotoluene, 2,4-	121-14-2	0.939	1.56
Dinitrotoluene, 2,6-	606-20-2	0.939	61.2
Dinitrotoluene, 2-Amino-4,6-	35572-78-2		154.
Dinitrotoluene, 4-Amino-2,6-	19406-51-0		153.
Dinoseb	88-85-7	78.2	61.1
Dioxane, 1,4-	123-91-1	58.1	44.1
Diphenamid	957-51-7	2,350.	1,830.
Diphenyl Sulfone	127-63-9	235.	183.
Diphenylamine	122-39-4	570.	1,530.
Diphenylhydrazine, 1,2-	122-66-7	0.798	0.607
Diquat	85-00-7	172.	134.
Direct Black 38	1937-37-7	0.0743	0.0656
Direct Blue 6	2602-46-2	0.0789	0.0656
Direct Brown 95	16071-86-6	0.0687	0.0725
Disulfoton	298-04-4	3.13	2.44
Dithiane, 1,4-	505-29-3	782.	611.
Diuron	330-54-1	156.	122.
Dodine	2439-10-3	313.	244.
Endosulfan	115-29-7	469.	367.
Endothall	145-73-3	1,560.	1,220.
Endrin	72-20-8	23.5	18.3
Epichlorohydrin	106-89-8	28.	24.2
Epoxybutane, 1,2-	106-88-7	120.	211.
EPTC	759-94-4	1,960.	617.

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Non-industrial d-c Reference RCLs: Option-1 / Option-2 COMPARISON

Generally, Option-2 (RSL) will be less than Option-1 (SSL). Exceptions are noted in red.

If Contaminant is in red font, Option-2 > Option-1	(All values are in mg/kg.)		If in red font, Option-2 > 10 x Option-1
	CAS	Option-1 (SSL)	
Ethephon	16672-87-0	391.	306.
Ethion	563-12-2	39.1	30.6
Ethoxyethanol Acetate, 2-	111-15-9	23,500.	18,300.
Ethoxyethanol, 2-	110-80-5	30,000.	24,400.
Ethyl Acetate	141-78-6	11,000.	11,000.
Ethyl Acrylate	140-88-5	13.3	13.3
Ethyl Chloride	75-00-3	1,200.	2,200.
Ethyl Ether	60-29-7	14,000.	8,210.
Ethyl Methacrylate	97-63-2	870.	1,170.
Ethylbenzene	100-41-4	400.	7.61
Ethylene Cyanohydrin	109-78-4	2,350.	1,830.
Ethylene Diamine	107-15-3	7,040.	5,500.
Ethylene Glycol Monobutyl Ether	111-76-2	39,100.	30,600.
Ethylene Oxide	75-21-8	0.19	0.213
Ethylene Thiourea	96-45-7	5.81	4.89
Ethyl-p-nitrophenyl Phosphonate	2104-64-5	0.782	0.611
Express	101200-48-0	626.	489.
Fenamiphos	22224-92-6	19.6	15.3
Fenpropathrin	39515-41-8	1,960.	1,530.
Fluometuron	2164-17-2	1,020.	794.
Fluoranthene	206-44-0	3,130.	2,290.
Fluorene	86-73-7	3,130.	2,290.
Fluorine (Soluble Fluoride)	7782-41-4	4,690.	4,690.
Fluorobiphenyl, 2-	321-60-8		1,560.
Fluridone	59756-60-4	93.	4,890.
Flurprimidol	56425-91-3	1,560.	1,220.
Flutolanil	66332-96-5	4,690.	3,670.
Fluvalinate	69409-94-5	150.	611.
Folpet	133-07-3	182.	139.
Fomesafen	72178-02-0	3.36	2.56
Fonofos	944-22-9	156.	122.
Formaldehyde	50-00-0	22.	12,200.
Furan	110-00-9	78.2	78.2
Furazolidone	67-45-8	0.168	0.128
Furfural	98-01-1	235.	183.
Furium	531-82-8	0.0128	0.324
Furmecycloz	60568-05-0	21.3	16.2
Glufosinate, Ammonium	77182-82-2	31.3	24.4
Glycidyl	765-34-4	31.3	24.4
Glyphosate	1071-83-6	7,820.	6,110.
Goal	42874-03-3	235.	183.
Guthion	86-50-0		183.
Haloxypop, Methyl	69806-40-2	3.91	3.06
Harmony	79277-27-3	1,020.	794.
Heptachlor	76-44-8	0.142	0.108
Heptachlor Epoxide	1024-57-3	0.0702	0.0533
Heptachlorobiphenyl, 2,3,3',4,4',5,5'-(PCB 189)	39635-31-9		0.0341
Heptane, N-	142-82-5		58.6
Hexabromobenzene	87-82-1	0.086	122.
Hexabromodiphenyl ether, 2,2',4,4',5,5'-(BDE-153)	68631-49-2		15.6

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Non-industrial d-c Reference RCLs: Option-1 / Option-2 COMPARISON

Generally, Option-2 (RSL) will be less than Option-1 (SSL). Exceptions are noted in red.

If Contaminant is in red font, Option-2 > Option-1	(All values are in mg/kg.)		If in red font, Option-2 > 10 x Option-1
	CAS	Option-1 (SSL)	
Hexachlorobenzene	118-74-1	0.399	0.303
Hexachlorobiphenyl, 2,3,3',4,4',5,5'-(PCB 156)	38380-08-4		0.000681
Hexachlorobiphenyl, 2,3,3',4,4',5,5'-(PCB 157)	69782-90-7		0.000681
Hexachlorobiphenyl, 2,3',4,4',5,5'-(PCB 167)	52663-72-6		0.0341
Hexachlorobiphenyl, 3,3',4,4',5,5'-(PCB 169)	32774-16-6		0.0341
Hexachlorobutadiene	87-68-3	8.19	6.22
Hexachlorocyclohexane, Alpha-	319-84-6	0.101	0.0771
Hexachlorocyclohexane, Beta-	319-85-7	0.355	0.27
Hexachlorocyclohexane, Gamma-(Lindane)	58-89-9	0.491	0.516
Hexachlorocyclohexane, Technical	608-73-1	0.355	0.27
Hexachlorocyclopentadiene	77-47-4	40.	366.
Hexachlorodibenzo-p-dioxin	34465-46-8		0.0000449
Hexachloroethane	67-72-1	45.6	34.7
Hexachlorophene	70-30-4	23.5	18.3
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	5.81	5.54
Hexamethylene Diisocyanate, 1,6-	822-06-0	3.1	5.11
Hexane, N-	110-54-3	280.	142.
Hexanone, 2-	591-78-6		3,130.
Hexazinone	51235-04-2	2,580.	2,020.
HpCDD, 2,3,7,8-	37871-00-4		0.0447
HpCDF, 1,2,3,4,7,8,9-	55673-89-7		0.0372
HxCDD, 1,2,3,6,7,8-	57653-85-7		0.0427
HxCDF, 1,2,3,7,8,9-	72918-21-9		0.0358
HxCDF, 2,3,4,6,7,8-	60851-34-5		0.0000373
Hydrazine	302-01-2	0.072	0.213
Hydrazine Sulfate	10034-93-2	0.213	0.213
Hydrogen Cyanide	74-90-8	1,560.	1,560.
Hydrogen Fluoride	7664-39-3		3,130.
Hydroquinone	123-31-9	11.4	8.67
Imazalil	35554-44-0	1,020.	794.
Imazaquin	81335-37-7	19,600.	15,300.
Indeno[1,2,3-cd]pyrene	193-39-5	0.875	0.148
Iodine	7553-56-2		782.
Iodomethane	74-88-4		3,130.
Iprodione	36734-19-7	3,130.	2,440.
Iron	7439-89-6		54,800.
Isobutyl Alcohol	78-83-1	11,000.	9,550.
Isophorone	78-59-1	672.	511.
Isopropalin	33820-53-0	330.	917.
Isopropyl Methyl Phosphonic Acid	1832-54-8	5,600.	6,110.
Isopropyltoluene, p-	99-87-6		190.
Isoxaben	82558-50-7	3,910.	3,060.
Kerb	23950-58-5	560.	4,580.
Kerosene	8008-20-6		0.367
Lactofen	77501-63-4	156.	122.
Lead and Compounds	7439-92-1		400.
Linuron	330-55-2	156.	122.
Lithium	7439-93-2		156.
Lithium Perchlorate	7791-03-9		54.8
Londax	83055-99-6	15,600.	12,200.

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Non-industrial d-c Reference RCLs: Option-1 / Option-2 COMPARISON

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If Contaminant is in red font, Option-2 > Option-1	(All values are in mg/kg.)		If in red font, Option-2 > 10 x Option-1
Contaminant	CAS	Option-1 (SSL)	Option-2 (RSL)
Malathion	121-75-5	570.	1,220.
Maleic Anhydride	108-31-6	7,820.	6,070.
Maleic Hydrazide	123-33-1	910.	30,600.
Malononitrile	109-77-3	7.82	6.11
Mancozeb	8018-01-7	2,350.	1,830.
Maneb	12427-38-2	391.	306.
Manganese (Water)	7439-96-5	3,600.	1,830.
MCPA	94-74-6	39.1	30.6
MCPB	94-81-5	782.	611.
MCPD	93-65-2	78.2	61.1
Mepfosfolan	950-10-7	7.04	5.5
Mepiquat Chloride	24307-26-4	2,350.	1,830.
Mercuric Chloride	7487-94-7	23.5	23.5
Mercuric Sulfide	1344-48-5	23.5	23.5
Mercury (elemental)	7439-97-6	2.9	3.13
Merphos	150-50-5	2.35	1.83
Merphos Oxide	78-48-8	2.35	1.83
Metalaxyl	57837-19-1	4,690.	3,670.
Methacrylonitrile	126-98-7	7.82	3.78
Methamidophos	10265-92-6	3.91	3.06
Methanol	67-56-1	39,100.	30,600.
Methidathion	950-37-8	78.2	61.1
Methomyl	16752-77-5	1,960.	1,530.
Methoxy-5-nitroaniline, 2-	99-59-2	13.9	9.91
Methoxychlor	72-43-5	391.	306.
Methoxyethanol Acetate, 2-	110-49-6	156.	122.
Methoxyethanol, 2-	109-86-4	78.2	183.
Methyl Acetate	79-20-9	78,200.	29,400.
Methyl Acrylate	96-33-3	2,350.	2,350.
Methyl Ethyl Ketone (2-Butanone)	78-93-3	24,000.	27,500.
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	2,700.	3,160.
Methyl Mercaptan	74-93-1	3.6	3,230.
Methyl Mercury	22967-92-6	7.82	7.82
Methyl Methacrylate	80-62-6	2,700.	2,450.
Methyl methanesulfonate	66-27-3		4.9
Methyl Parathion	298-00-0	19.6	15.3
Methyl Phosphonic Acid	993-13-5	1,560.	1,220.
Methyl Styrene (Mixed Isomers)	25013-15-4	469.	226.
Methyl tert-Butyl Ether (MTBE)	1634-04-4	8,700.	51.4
Methyl-2-Pentanol, 4-	108-11-2		2,220.
Methyl-5-Nitroaniline, 2-	99-55-8	19.4	14.7
Methylaniline Hydrochloride, 2-	636-21-5	3.55	3.73
Methylarsonic acid	124-58-3		611.
Methylcholanthrene, 3-	56-49-5		0.0221
Methylcyclohexane	108-87-2	490.	70.5
Methylcyclopentane	96-37-7	160.	159.
Methylene Chloride	75-09-2	17.	14.3
Methylene-bis(2-chloroaniline), 4,4'	101-14-4	4.91	1.15
Methylene-bis(N,N-dimethyl) Aniline, 4,4'	101-61-1	13.9	10.6
Methylenebisbenzenamine, 4,4'	101-77-9		0.303

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Appendix A

Non-industrial d-c Reference RCLs: Option-1 / Option-2 COMPARISON

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If Contaminant is in red font, Option-2 > Option-1	(All values are in mg/kg.)		If in red font, Option-2 > 10 x Option-1
Contaminant	CAS	Option-1 (SSL)	Option-2 (RSL)
Methylnaphthalene, 1-	90-12-0		22.
Methylnaphthalene, 2-	91-57-6	313.	313.
Methylstyrene, Alpha-	98-83-9	5,480.	447.
Metolachlor	51218-45-2	11,700.	9,170.
Metribuzin	21087-64-9	1,300.	1,530.
Mirex	2385-85-5	15.6	0.027
Molinate	2212-67-1	156.	122.
Molybdenum	7439-98-7	391.	391.
Monochloramine	10599-90-3	7,820.	7,820.
Monomethylaniline	100-61-8		122.
N,N-Diphenyl-1,4-benzenediamine	74-31-7	23.5	18.3
Naled	300-76-5	156.	122.
Naphthalene	91-20-3	240.	5.35
Naphthylamine, 2-	91-59-8		0.27
Napropamide	15299-99-7	7,820.	6,110.
Nickel Soluble Salts	7440-02-0	1,560.	1,550.
Nickel Sulfide	12035-72-2	6,890.	0.376
Nitrite	14797-65-0	7,820.	7,820.
Nitroaniline, 2-	88-74-4	1.7	183.
Nitroaniline, 4-	100-01-6	30.4	24.3
Nitrobenzene	98-95-3	39.1	6.09
Nitrofurantoin	67-20-9	5,480.	4,280.
Nitrofurazone	59-87-0	0.426	0.373
Nitroglycerin	55-63-0		6.11
Nitroguanidine	556-88-7	7,820.	6,110.
Nitromethane	75-52-5		6.5
Nitrophenol, 2-	88-75-5		4,980.
Nitropropane, 2-	79-46-9	0.019	0.0164
Nitrosodiethanolamine, N-	1116-54-7	0.228	0.173
Nitrosodiethylamine, N-	55-18-5	0.00426	0.000768
Nitrosodimethylamine, N-	62-75-9	0.0125	0.00226
Nitroso-di-N-butylamine, N-	924-16-3	0.118	0.0986
Nitroso-di-N-propylamine, N-	621-64-7	0.0912	0.0694
Nitrosodiphenylamine, N-	86-30-6	130.	99.1
Nitrosomethylethylamine, N-	10595-95-6	0.029	0.0221
Nitrosomorpholine [N-]	59-89-2		0.0725
Nitroso-N-ethylurea, N-	759-73-9	0.00456	0.018
Nitroso-N-methylurea, N-	684-93-5		0.00405
Nitrosopiperidine [N-]	100-75-4		0.0516
Nitrosopyrrolidine, N-	930-55-2	0.304	0.231
Nitrotoluene, m-	99-08-1	980.	1,220.
Nitrotoluene, o-	88-72-2	2.78	2.9
Nitrotoluene, p-	99-99-0	37.6	30.3
Norflurazon	27314-13-2	3,130.	2,440.
Nustar	85509-19-9	54.8	42.8
OCDD	3268-87-9		0.0449
OCDF	39001-02-0		0.0373
Octabromodiphenyl Ether	32536-52-0	235.	183.
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetra (HMX)	2691-41-0	3,910.	3,850.
Octamethylpyrophosphoramidate	152-16-9	156.	122.

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Appendix A

Non-industrial d-c Reference RCLs: Option-1 / Option-2 COMPARISON

Generally, Option-2 (RSL) will be less than Option-1 (SSL). Exceptions are noted in red.

If Contaminant is in red font, Option-2 > Option-1	(All values are in mg/kg.)		If in red font, Option-2 > 10 x Option-1
	CAS	Option-1 (SSL)	
Octanone, 2-	111-13-7		330.
Octanone, 3-	106-68-3		986.
Oryzalin	19044-88-3	7.5	3,060.
Oxadiazon	19666-30-9	391.	306.
Oxamyl	23135-22-0	1,960.	1,530.
Paclobutrazol	76738-62-0	1,020.	794.
Paraquat Dichloride	1910-42-5	352.	275.
Parathion	56-38-2	40.	367.
Pebulate	1114-71-2	3,910.	3,060.
PeCDF, 1,2,3,7,8-	57117-41-6		0.000747
PeCDF, 2,3,4,7,8-	57117-31-4		0.00000747
Pendimethalin	40487-42-1	3,130.	2,440.
Pentabromodiphenyl Ether	32534-81-9	156.	122.
Pentabromodiphenyl ether, 2,2',4,4',5'- (BDE-99)	60348-60-9		7.82
Pentachlorobenzene	608-93-5	62.6	48.9
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4		0.0341
Pentachlorobiphenyl, 2,3,4,4',5'- (PCB 114)	74472-37-0		0.000681
Pentachlorobiphenyl, 2,3',4,4',5'- (PCB 118)	31508-00-6		0.0341
Pentachlorobiphenyl, 2',3,4,4',5'- (PCB 123)	65510-44-3		0.0341
Pentachlorobiphenyl, 3,3',4,4',5'- (PCB 126)	57465-28-8		0.0000341
Pentachloroethane	76-01-7		5.39
Pentachloronitrobenzene	82-68-8	2.46	1.87
Pentachlorophenol	87-86-5	5.32	2.97
Pentyl Alcohol, N-	71-41-0		2,800.
Perchlorate and Perchlorate Salts	14797-73-0		54.8
Permethrin	52645-53-1	3,910.	3,060.
Phenacetin	62-44-2		221.
Phenanthrene	85-01-8		144.
Phenmedipham	13684-63-4	19,600.	15,300.
Phenol	108-95-2	23,500.	18,300.
Phenylenediamine, m-	108-45-2	469.	367.
Phenylenediamine, o-	95-54-5	13.6	10.3
Phenylenediamine, p-	106-50-3	14,900.	11,600.
Phenylmercuric Acetate	62-38-4	6.26	4.89
Phenylphenol, 2-	90-43-7	329.	250.
Phorate	298-02-2	15.6	12.2
Phosgene	75-44-5		0.547
Phosmet	732-11-6	1,560.	1,220.
Phosphine	7803-51-2	23.5	23.5
Phosphorus, White	7723-14-0	1.56	1.56
Phthalic Acid, P-	100-21-0	78,200.	61,100.
Picloram	1918-02-1	5,480.	4,280.
Picramic Acid (2-Amino-4,6-dinitrophenol)	96-91-3	156.	122.
Pirimiphos, Methyl	29232-93-7	782.	611.
Polybrominated Biphenyls	59536-65-1		0.0162
Polychlorinated Biphenyls (high risk)	1336-36-3		0.221
Potassium Cyanide	151-50-8	3,910.	3,910.
Potassium Perchlorate	7778-74-7		54.8
Potassium Silver Cyanide	506-61-6	15,600.	15,600.
Prochloraz	67747-09-5	4.26	3.24

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Non-industrial d-c Reference RCLs: Option-1 / Option-2 COMPARISON

Generally, Option-2 (RSL) will be less than Option-1 (SSL). Exceptions are noted in red.

If Contaminant is in red font, Option-2 > Option-1	(All values are in mg/kg.)		If in red font, Option-2 > 10 x Option-1
	CAS	Option-1 (SSL)	
Profluralin	26399-36-0	180.	367.
Prometon	1610-18-0	1,170.	917.
Prometryn	7287-19-6	313.	244.
Propachlor	1918-16-7	1,020.	794.
Propanil	709-98-8	391.	306.
Propargite	2312-35-8	1,560.	1,220.
Propargyl Alcohol	107-19-7	156.	122.
Propazine	139-40-2	1,560.	1,220.
Propham	122-42-9	1,560.	1,220.
Propiconazole	60207-90-1	1,020.	794.
Propionaldehyde	123-38-6		118.
Propionitrile	107-12-0		15,500.
Propyl benzene	103-65-1		309.
Propylene Glycol Dinitrate	6423-43-4		82.1
Propylene Glycol Monoethyl Ether	1569-02-4	54,800.	42,800.
Propylene Glycol Monomethyl Ether	107-98-2	54,800.	42,800.
Propylene Oxide	75-56-9	2.66	2.04
Pursuit	81335-77-5	19,600.	15,300.
Pydrin	51630-58-1	1,960.	1,530.
Pyrene	129-00-0	2,350.	1,720.
Pyridine	110-86-1	78.2	78.2
Quinalphos	13593-03-8	39.1	30.6
Quinoline	91-22-5	0.213	0.162
Resmethrin	10453-86-8	2,350.	1,830.
Ronnel	299-84-3	3,910.	3,060.
Rotenone	83-79-4	313.	244.
Safrole	94-59-7		2.21
Savey	78587-05-0	1,960.	1,530.
Selenious Acid	7783-00-8	391.	391.
Selenium	7782-49-2	391.	391.
Selenourea	630-10-4	391.	306.
Sethoxydim	74051-80-2	7,040.	5,500.
Silver	7440-22-4	391.	391.
Silver Cyanide	506-64-9	7,820.	7,820.
Simazine	122-34-9	5.32	4.05
Sodium Acifluorfen	62476-59-9	1,020.	794.
Sodium Azide	26628-22-8	313.	313.
Sodium Cyanide	143-33-9	3,130.	3,130.
Sodium Diethyldithiocarbamate	148-18-5	2.37	1.8
Sodium Fluoride	7681-49-4		3,910.
Sodium Fluoroacetate	62-74-8	1.56	1.22
Sodium Metavanadate	13718-26-8	78.2	78.2
Sodium Perchlorate	7601-89-0		54.8
Stiufos (Tetrachlorovinphos)	961-11-5	26.6	20.2
Strontium, Stable	7440-24-6	46,900.	46,900.
Strychnine	57-24-9	23.5	18.3
Styrene	100-42-5	1,500.	1,000.
Sulfonylbis(4-chlorobenzene), 1,1'-	80-07-9	391.	306.
Sulfur Mustard	505-60-2		1,200.
Systhane	88671-89-0	1,960.	1,530.

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Non-industrial d-c Reference RCLs: Option-1 / Option-2 COMPARISON

Generally, Option-2 (RSL) will be less than Option-1 (SSL). Exceptions are noted in red.

If Contaminant is in red font, Option-2 > Option-1	(All values are in mg/kg.)		If in red font, Option-2 > 10 x Option-1
Contaminant	CAS	Option-1 (SSL)	Option-2 (RSL)
TCDD, 2,3,7,8-	1746-01-6	0.00000426	0.00000449
TCDF, 2,3,7,8-	51207-31-9		0.0000373
TCMTB	21564-17-0	2,350.	1,830.
Tebuthiuron	34014-18-1	5,480.	4,280.
Temephos	3383-96-8	1,560.	1,220.
Terbacil	5902-51-2	1,020.	794.
Terbufos	13071-79-9	1.96	1.53
Terbutryn	886-50-0	78.2	61.1
Tetrabromodiphenyl ether, 2,2',4,4'-(BDE-47)	5436-43-1		7.82
Tetrachlorobenzene, 1,2,4,5-	95-94-3	16.	18.3
Tetrachlorobiphenyl, 3,3',4,4'-(PCB 77)	32598-13-3		0.0341
Tetrachlorobiphenyl, 3,4,4',5-(PCB 81)	70362-50-4		0.0341
Tetrachloroethane, 1,1,1,2-	630-20-6	9.2	2.63
Tetrachloroethane, 1,1,2,2-	79-34-5	0.8	0.754
Tetrachloroethylene	127-18-4	12.3	0.66
Tetrachlorophenol, 2,3,4,6-	58-90-2	2,350.	1,830.
Tetrachlorotoluene, p- alpha, alpha, alpha-	5216-25-1	0.0319	0.0243
Tetraethyl Dithiopyrophosphate	3689-24-5	8.9	30.6
Tetraethyl Lead	78-00-2	0.6	0.00611
Tetrafluoroethane, 1,1,1,2-	811-97-2	850.	819.
Tetrahydrofuran	109-99-9		130,000.
Tetrahydrothiophene	110-01-0		2,390.
Tetryl (Trinitrophenylmethylnitramine)	479-45-8	313.	244.
Thallium (I) Nitrate	10102-45-1	7.04	7.04
Thallium (Soluble Salts)	7440-28-0	6.26	5.07
Thallium Acetate	563-68-8	7.04	7.04
Thallium Carbonate	6533-73-9	6.26	6.26
Thallium Chloride	7791-12-0	6.26	6.26
Thallium Sulfate	7446-18-6	6.26	6.26
Thiobencarb	28249-77-6	782.	611.
Thiocyanate	463-56-9	3,910.	15.6
Thiofanox	39196-18-4	23.5	18.3
Thiophanate, Methyl	23564-05-8	6,260.	4,890.
Thiophene	110-02-1		1,990.
Thiram	137-26-8	11.	306.
Tin	7440-31-5	46,900.	46,900.
Toluene	108-88-3	650.	925.
Toluene diisocyanate mixture (TDI)	26471-62-5	2,100.	15.3
Toluene-2,4-diamine	95-80-7	0.2	0.128
Toluene-2,5-diamine	95-70-5	7,900.	36,700.
Toluene-2,6-diamine	823-40-5	15,600.	1,830.
Toluidine, o- (Methylaniline, 2-)	95-53-4	2.66	2.7
Toluidine, p-	106-49-0	3.36	2.56
Toxaphene	8001-35-2	0.581	0.441
Tralomethrin	66841-25-6	587.	458.
Triallate	2303-17-5	1,020.	794.
Triasulfuron	82097-50-5	782.	611.
Tribromobenzene, 1,2,4-	615-54-3	170.	306.
Tributyl Phosphate	126-73-8	118.	52.8
Tributyltin Oxide	56-35-9	23.5	18.3

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Non-industrial d-c Reference RCLs: Option-1 / Option-2 COMPARISON

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If Contaminant is in red font, Option-2 > Option-1	(All values are in mg/kg.)		If in red font, Option-2 > 10 x Option-1
Contaminant	CAS	Option-1 (SSL)	Option-2 (RSL)
Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1	930.	938.
Trichloroaniline HCl, 2,4,6-	33663-50-2	22.	16.7
Trichloroaniline, 2,4,6-	634-93-5	18.8	14.3
Trichlorobenzene, 1,2,3-	87-61-6		81.1
Trichlorobenzene, 1,2,4-	120-82-1	240.	115.
Trichloroethane, 1,1,1-	71-55-6	1,200.	677.
Trichloroethane, 1,1,2-	79-00-5	1.3	1.47
Trichloroethylene	79-01-6	0.097	3.81
Trichlorofluoromethane	75-69-4	1,500.	1,080.
Trichlorophenol, 2,4,5-	95-95-4	7,820.	6,110.
Trichlorophenol, 2,4,6-	88-06-2	58.1	44.1
Trichlorophenoxy Propionic Acid, 2(2,4,5-	93-72-1	626.	489.
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5	782.	611.
Trichloropropane, 1,1,2-	598-77-6	391.	391.
Trichloropropane, 1,2,3-	96-18-4	0.0912	0.0913
Trichloropropene, 1,2,3-	96-19-5	460.	3.76
Trichlorotoluene, 2,3,6-	2077-46-5		51.4
Trichlorotoluene, alpha 2,6-	2014-83-7		129.
Tridiphenyl	58138-08-2	235.	183.
Triethyl phosphorothioate [O,O,O-]	126-68-1		221.
Triethylamine	121-44-8	230.	231.
Trifluralin	1582-09-8	83.	63.
Trimethyl Phosphate	512-56-1	17.3	13.1
Trimethylbenzene, 1,2,4-	95-63-6	170.	92.2
Trimethylbenzene, 1,3,5-	108-67-8	99.	64.9
Trimethylpentane, 2,2,4-	540-84-1		61.7
Tri-n-butyltin	688-73-3		18.3
Trinitrobenzene, 1,3,5-	99-35-4	65.	2,230.
Trinitrotoluene, 2,4,6-	118-96-7	13.	19.3
Triphenylphosphine Oxide	791-28-6	1,560.	1,220.
Tris(2-chloroethyl)phosphate	115-96-8	45.6	34.7
Tris(2-ethylhexyl)phosphate	78-42-2	200.	152.
Vanadium Pentoxide	1314-62-1	704.	399.
Vanadium Sulfate	36907-42-3	1,560.	1,560.
Vanadium, Metallic	7440-62-2	548.	548.
Vernolate	1929-77-7	78.2	61.1
Vinclozolin	50471-44-8	1,960.	1,530.
Vinyl Acetate	108-05-4	1,300.	1,350.
Vinyl Bromide	593-60-2	19.	0.157
Vinyl Chloride	75-01-4	0.39	0.0664
Warfarin	81-81-2	23.5	18.3
Xylene, m-	108-38-3	420.	444.
Xylene, Mixture	1330-20-7	960.	298.
Xylene, o-	95-47-6	410.	297.
Xylene, P-	106-42-3	460.	447.
Zinc (Metallic)	7440-66-6	23,500.	23,500.
Zinc Cyanide	557-21-1	3,910.	3,910.
Zinc Phosphide	1314-84-7	23.5	23.5
Zineb	12122-67-7	3,910.	3,060.

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Industrial d-c Reference RCLs: Option-1 / Option-2 COMPARISON

Generally, Option-2 (RSL) will be less than Option-1 (SSL). Exceptions are noted in red.

If Contaminant is in red font, Option-2 > Option-1	(All values are in mg/kg.)	If in red font, Option-2 > 10 x Option-1	
Contaminant	CAS	Option-1 (SSL)	Option-2 (RSL)
Acenaphthene	83-32-9	61,300.	33,000.
Acenaphthylene	208-96-8		593.
Acephate	30560-19-1	329.	198.
Acetaldehyde	75-07-0	29.	72.9
Acetochlor	34256-82-1	20,400.	12,300.
Acetone	67-64-1	100,000.	112,000.
Acetone Cyanohydrin	75-86-5	3,070.	2,300.
Acetonitrile	75-05-8	2,700.	5,020.
Acetophenone	98-86-2	1,400.	2,310.
Acetylaminofluorene, 2-	53-96-3		0.454
Acrolein	107-02-8	0.37	0.938
Acrylamide	79-06-1	0.636	0.383
Acrylic Acid	79-10-7	380.	293,000.
Acrylonitrile	107-13-1	0.64	1.47
Alachlor	15972-60-8	35.8	30.8
ALAR	1596-84-5	10,000.	95.8
Aldicarb	116-06-3	1,020.	616.
Aldicarb Sulfone	1646-88-4	1,020.	616.
Aldrin	309-00-2	0.168	0.101
Allyl	74223-64-6	256,000.	154,000.
Allyl Alcohol	107-18-6	5,110.	3,070.
Allyl Chloride	107-05-1	3.5	4.76
Aluminum	7429-90-5	1,020,000.	988,000.
Aluminum Phosphide	20859-73-8	409.	409.
Amdro	67485-29-4	307.	185.
Ametryn	834-12-8	9,200.	5,540.
Aminobiphenyl, 4-	92-67-1		0.0821
Aminophenol, m-	591-27-5	71,500.	49,300.
Aminophenol, p-	123-30-8		12,300.
Amitraz	33089-61-1	2,560.	1,540.
Ammonium Perchlorate	7790-98-9	715.	715.
Ammonium Sulfamate	7773-06-0	204,000.	204,000.
Aniline	62-53-3	190.	302.
Anthracene	120-12-7	307,000.	165,000.
Antimony (metallic)	7440-36-0	409.	409.
Antimony Pentoxide	1314-60-9	511.	511.
Antimony Potassium Tartrate	11071-15-1		920.
Antimony Tetroxide	1332-81-6	409.	409.
Apollo	74115-24-5	13,300.	8,000.
Aramite	140-57-8	55.	69.
Aroclor 1016	12674-11-2		21.2
Aroclor 1221	11104-28-2		0.653
Aroclor 1232	11141-16-5		0.653
Aroclor 1242	53469-21-9		0.744
Aroclor 1248	12672-29-6		0.744
Aroclor 1254	11097-69-1		0.744
Aroclor 1260	11096-82-5		0.744
Arsenic, Inorganic	7440-38-2	1.91	1.59
Arsine	7784-42-1	99,200.	298,000.
Assure	76578-14-8	9,200.	5,540.

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Appendix B

Industrial d-c Reference RCLs: Option-1 / Option-2 COMPARISON

Generally, Option-2 (RSL) will be less than Option-1 (SSL). Exceptions are noted in red.

If Contaminant is in red font, Option-2 > Option-1	(All values are in mg/kg.)	If in red font, Option-2 > 10 x Option-1	
Contaminant	CAS	Option-1 (SSL)	Option-2 (RSL)
Asulam	3337-71-1	51,100.	30,800.
Atrazine	1912-24-9	12.9	7.5
Avermectin B1	65195-55-3	409.	246.
Azobenzene	103-33-3	26.	23.3
Barium	7440-39-3	204,000.	191,000.
Baygon	114-26-1	4,090.	2,460.
Bayleton	43121-43-3	30,700.	18,500.
Baythroid	68359-37-5	25,600.	15,400.
Benefin	1861-40-1	307,000.	185,000.
Benomyl	17804-35-2	51,100.	30,800.
Bentazon	25057-89-0	30,700.	18,500.
Benz[a]anthracene	56-55-3	3.92	2.11
Benzaldehyde	100-52-7	102,000.	1,950.
Benzene	71-43-2	1.9	7.45
Benzene, Ethyldimethyl	29224-55-3		151.
Benzene, Ethylmethyl	25550-14-5		386.
Benzene, Methylpropenyl	768-00-3		443.
Benzene, Trimethyl	25551-13-7		211.
Benzenethiol	108-98-5	10.2	10.2
Benidine	92-87-5	0.0124	0.00749
Benzo[a]pyrene	50-32-8	0.392	0.211
Benzo[b]fluoranthene	205-99-2	3.92	2.11
Benzo[k]fluoranthene	207-08-9	39.2	21.1
Benzo[ghi]perylene	123-17-7	0.22	0.22
Benzyl Alcohol	100-51-6	15,000.	308,000.
Benzyl Chloride	100-44-7	16.8	6.33
Beryllium and compounds	7440-41-7	2,040.	2,010.
Bidrin	141-66-2	102.	61.6
Bifenox	42576-02-3		5,540.
Biphenthrin	82657-04-3	15,300.	9,230.
Biphenyl, 1,1'-	92-52-4	570.	261.
Bis(2-chloro-1-methylethyl) ether	108-60-1	16.	19.9
Bis(2-chloroethoxy)methane	111-91-1		1,850.
Bis(2-chloroethyl)ether	111-44-4	0.56	1.09
Bis(2-ethylhexyl)phthalate	117-81-7	204.	123.
Bis(chloromethyl)ether	542-88-1	0.0025	0.00178
Bisphenol A	80-05-7	51,100.	30,800.
Boron And Borates Only	7440-42-8	204,000.	204,000.
Bromate	15541-45-4		4.09
Bromo-2-chloroethane, 1-	107-04-0		2,550.
Bromobenzene	108-86-1	770.	562.
Bromochloromethane	74-97-5		4,240.
Bromodichloromethane	75-27-4	46.2	1.92
Bromofluorobenzene, p-	460-00-4		375.
Bromoform	75-25-2	120.	218.
Bromomethane	74-83-9	18.	47.3
Bromophos	2104-96-3	5,110.	3,080.
Bromotrchloromethane	75-62-7		121.
Bromoxynil	1689-84-5	83.	12,300.
Bromoxynil Octanoate	1689-99-2	20,400.	12,300.

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Industrial d-c Reference RCLs: Option-1 / Option-2 COMPARISON

Generally, Option-2 (RSL) will be less than Option-1 (SSL). Exceptions are noted in red.

If Contaminant is in red font, Option-2 > Option-1	(All values are in mg/kg.)		If in red font, Option-2 > 10 x Option-1
Contaminant	CAS	Option-1 (SSL)	Option-2 (RSL)
Butadiene, 1,3-	106-99-0	0.00014	0.326
Butanol, n-	71-36-3	10,000.	61,600.
Butyl Benzyl Phthlate	85-68-7	930.	907.
Butylacetate	123-86-4		1,910.
Butylate	2008-41-5	51,100.	30,800.
Butylbenzene, n-	104-51-8		127.
Butylbenzene, sec-	135-98-8		171.
Butylbenzene, tert-	98-06-6		215.
Butylchloride, t-	507-20-0		1,410.
Butylphthalyl Butylglycolate	85-70-1	640.	616,000.
Cacodylic Acid	75-60-5	11.4	12,300.
Cadmium (Diet)	7440-43-9	1,020.	798.
Calcium Cyanide	592-01-8	40,900.	40,900.
Caprolactam	105-60-2	511,000.	308,000.
Captan	133-06-2	15.	749.
Carbaryl	63-25-2	140.	61,600.
Carbofuran	1563-66-2	110.	3,080.
Carbon Disulfide	75-15-0	720.	257.
Carbon Tetrachloride	56-23-5	0.76	1.71
Carbosulfan	55285-14-8	10,200.	6,160.
Carboxin	5234-68-4	102,000.	61,600.
Chloral Hydrate	302-17-0		61,600.
Chloramben	133-90-4	15,300.	9,230.
Chloranil	118-75-2	7.1	4.28
Chlordane	12789-03-6		6.47
Chlordecone (Kepone)	143-50-0		0.108
Chlorfenvinphos	470-90-6		431.
Chlorimuron, Ethyl-	90982-32-4	20,400.	12,300.
Chlorine	7782-50-5	102,000.	91,400.
Chlorine Dioxide	10049-04-4	30,700.	29,900.
Chlorite (Sodium Salt)	7758-19-2		30,700.
Chloro-1,1-difluoroethane, 1-	75-68-3	3,400.	1,190.
Chloro-1,3-butadiene, 2-	126-99-8	160.	49.9
Chloro-2-methylaniline HCl, 4-	3165-93-3	6.22	3.75
Chloro-2-methylaniline, 4-	95-69-2	4.93	6.38
Chloroacetic Acid	79-11-8	2,040.	1,230.
Chloroacetophenone, 2-	532-27-4	16.	179,000.
Chloroaniline, p-	106-47-8	4,090.	8.62
Chlorobenzene	108-90-7	250.	863.
Chlorobenzilate	510-15-6	10.6	15.7
Chlorobenzotrifluoride, 4-	98-56-6	20,400.	545.
Chlorobutane, 1-	109-69-3	409,000.	785.
Chlorobutane, 2-	78-86-4		693.
Chlorocyclopentadiene	41851-50-7		1,110.
Chlorodifluoromethane	75-45-6	82,000.	1,730.
Chloroethylvinyl ether, 2-	110-75-8		92.9
Chloroform	67-66-3	0.64	2.09
Chloromethane	74-87-3	4.8	695.
Chloromethyl Methyl Ether	107-30-2		0.118
Chloronaphthalene, alpha-	90-13-1		319.

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Industrial d-c Reference RCLs: Option-1 / Option-2 COMPARISON

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Contaminant	CAS	Option-1 (SSL)	Option-2 (RSL)
Chloronaphthalene, Beta-	91-58-7	160.	210.
Chloronitrobenzene, o-	88-73-3	0.71	178.
Chloronitrobenzene, p-	100-00-5		274.
Chlorophenol, 2-	95-57-8	5,110.	5,110.
Chlorophenyl Methyl Sulfide, p-	123-09-1		611.
Chloropropane, 2-	75-29-6	510.	1,380.
Chlorothalonil	1897-45-6	260.	556.
Chlorotoluene, o-	95-49-8	20,400.	1,040.
Chlorotoluene, p-	106-43-4	71,500.	290.
Chlorpropham	101-21-3	204,000.	123,000.
Chlorpyrifos	2921-88-2	3,070.	1,850.
Chlorpyrifos Methyl	5598-13-0	10,200.	6,160.
Chlorsulfuron	64902-72-3	51,100.	30,800.
Chlorthiophos	60238-56-4	818.	493.
Chromium VI (particulates)	18540-29-9	463.	198.
Chromium(VI), Aerosol Mists	7738-94-5		12,100.
Chromium, Total (1:6 ratio Cr VI : Cr III)	7440-47-3	463.	1,390.
Chrysene	218-01-9	392.	211.
Cobalt	7440-48-4	1,980.	304.
Copper	7440-50-8		40,900.
Copper Cyanide	544-92-3	5,110.	5,110.
Cresol, m-	108-39-4	3,500.	30,800.
Cresol, o-	95-48-7	51,100.	30,800.
Cresol, p-	106-44-5	5,110.	3,080.
Cresols	1319-77-3		71,400.
Crotonaldehyde, trans-	123-73-9	1.51	1.51
Crotonaldehyde, trans-	123-73-9	0.168	1.51
Cumene	98-82-8	850.	312.
Cyanazine	21725-46-2	3.41	2.05
Cyanide (CN-)	57-12-5	20,400.	20,400.
Cyanogen	460-19-5	1,400.	40,900.
Cyanogen Bromide	506-68-3	92,000.	92,000.
Cyanogen Chloride	506-77-4	51,100.	51,100.
Cyclohexane	110-82-7	140.	124.
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3	124.	75.
Cyclohexylamine	108-91-8	204,000.	123,000.
Cyclopentadiene	542-92-7		329.
Cyhalothrin/karate	68085-85-8	5,110.	3,080.
Cypermethrin	52315-07-8	10,200.	6,160.
Cyromazine	66215-27-8	7,670.	4,620.
Dacthal	1861-32-1	10,200.	6,160.
Dalapon	75-99-0	30,700.	18,500.
DDD	72-54-8	11.9	7.18
DDE, p,p'-	72-55-9	8.42	5.07
DDT	50-29-3	8.42	7.03
Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'-(BDE-209)	1163-19-5	10,200.	2,460.
Decane	124-18-5		2.62
Demeton	8065-48-3	40.9	24.6
Di(2-ethylhexyl)adipate	103-23-1	2,380.	1,440.
Diallate	2303-16-4	46.9	28.3

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Industrial d-c Reference RCLs: Option-1 / Option-2 COMPARISON

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If Contaminant is in red font, Option-2 > Option-1	(All values are in mg/kg.)		If in red font, Option-2 > 10 x Option-1
Contaminant	CAS	Option-1 (SSL)	Option-2 (RSL)
Diazinon	333-41-5	920.	431.
Dibenz[a,h]anthracene	53-70-3	0.392	0.211
Dibenzofuran	132-64-9	210.	210.
Dibenzothiophene	132-65-0		99.7
Dibromo-3-chloropropane, 1,2-	96-12-8	2.04	0.0993
Dibromobenzene, 1,4-	106-37-6	10,200.	6,160.
Dibromochloromethane	124-48-1	1.1	4.35
Dibromochloromethane	124-48-1	34.1	4.35
Dibromoethane, 1,2-	106-93-4	0.00023	0.225
Dibromomethane (Methylene Bromide)	74-95-3	1,600.	2,960.
Dibutyl Phthalate	84-74-2	2,300.	61,600.
Dicamba	1918-00-9	6,000.	18,500.
Dichloro-2-butene, 1,4-	764-41-0	0.046	0.0137
Dichloro-2-butene, cis-1,4-	1476-11-5		0.0146
Dichloro-2-butene, trans-1,4-	110-57-6		0.0508
Dichloroacetic Acid	79-43-6	57.2	34.5
Dichloroaniline, 3,4-	95-76-1		75.4
Dichlorobenzene, 1,2-	95-50-1	600.	222.
Dichlorobenzene, 1,3-	541-73-1		341.
Dichlorobenzene, 1,4-	106-46-7	119.	17.9
Dichlorobenzidine, 3,3'-	91-94-1	6.36	3.83
Dichlorodifluoromethane	75-71-8	480.	853.
Dichlorodiisopropyl ether, 2,2'-	39638-32-9	40,900.	9.22
Dichloroethane, 1,1-	75-34-3	1,700.	23.2
Dichloroethane, 1,2-	107-06-2	0.83	2.99
Dichloroethylene, 1,1-	75-35-4	560.	1,240.
Dichloroethylene, 1,2- (Mixed Isomers)	540-59-0	9,200.	1,380.
Dichloroethylene, 1,2-cis-	156-59-2	1,200.	1,380.
Dichloroethylene, 1,2-trans-	156-60-5	3,100.	677.
Dichlorophenol, 2,4-	120-83-2	3,070.	1,850.
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7	1,800.	7,680.
Dichlorophenoxybutyric Acid, 4-(2,4-	94-82-6	940.	4,930.
Dichloropropane, 1,2-	78-87-5	28.	6.27
Dichloropropane, 1,3-	142-28-9	1,600.	1,630.
Dichloropropanol, 2,3-	616-23-9	3,070.	1,850.
Dichloropropene, 1,3-	542-75-6	2.5	10.4
Dichloropropene, 2,3-	78-88-6		1,160.
Dichloropropene, cis-1,3-	10061-01-5		1,700.
Dichloropropene, trans-1,3-	10061-02-6		1,660.
Dichlorvos	62-73-7	9.87	5.94
Dicyclopentadiene	77-73-6	9.2	173.
Dieldrin	60-57-1	0.179	0.108
Diethyl Phthalate	84-66-2	2,000.	493,000.
Diethylene Glycol Monobutyl Ether	112-34-5	10,200.	6,160.
Diethylene Glycol Monoethyl Ether	111-90-0	1,500.	36,900.
Diethylformamide	617-84-5	409.	616.
Diethylphosphorodithioate	298-06-6		198.
Diethylstilbestrol	56-53-1	0.000609	0.00493
Difenzoquat	43222-48-6	81,800.	49,300.
Diflubenzuron	35367-38-5	20,400.	12,300.

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Industrial d-c Reference RCLs: Option-1 / Option-2 COMPARISON

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If Contaminant is in red font, Option-2 > Option-1	(All values are in mg/kg.)		If in red font, Option-2 > 10 x Option-1
Contaminant	CAS	Option-1 (SSL)	Option-2 (RSL)
Difluoroethane, 1,1-	75-37-6	79,400,000,000.	1,500.
Diisopropyl Ether	108-20-3	1,600.	1,590.
Diisopropyl Methylphosphonate	1445-75-6	81,800.	432.
Dimethipin	55290-64-7	20,400.	12,300.
Dimethoate	60-51-5	204.	123.
Dimethoxybenzidine, 3,3'-	119-90-4	1.24	123.
Dimethyl methylphosphonate	756-79-6		1,010.
Dimethyl Sulfide	75-18-3		5,610.
Dimethylamino azobenzene [p-]	60-11-7		0.375
Dimethylaniline HCl, 2,4-	21436-96-4	4.93	2.97
Dimethylaniline, 2,4-	95-68-1	3.82	2.3
Dimethylaniline, N,N-	121-69-7	2,040.	816.
Dimethylbenz(a)anthracene, 7,12-	57-97-6		0.00616
Dimethylbenzidine, 3,3'-	119-93-7	0.311	0.157
Dimethylformamide	68-12-2	8,500.	61,500.
Dimethylhydrazine, 1,2-	540-73-8		0.00313
Dimethylphenol, 2,4-	105-67-9	20,400.	12,300.
Dimethylphenol, 2,6-	576-26-1	613.	369.
Dimethylphenol, 3,4-	95-65-8	1,020.	616.
Dimethylterephthalate	120-61-6	102,000.	6.06
Dinitrobenzene, 1,2-	528-29-0	102.	61.6
Dinitrobenzene, 1,3-	99-65-0	102.	61.6
Dinitrobenzene, 1,4-	100-25-4	102.	61.6
Dinitro-o-cresol, 4,6-	534-52-1	102.	61.6
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5	2,040.	1,230.
Dinitrophenol, 2,4-	51-28-5	2,040.	1,230.
Dinitrotoluene Mixture, 2,4/2,6-	25321-14-6	4.21	2.54
Dinitrotoluene, 2,4-	121-14-2	4.21	5.52
Dinitrotoluene, 2,6-	606-20-2	4.21	618.
Dinitrotoluene, 2-Amino-4,6-	35572-78-2		1,970.
Dinitrotoluene, 4-Amino-2,6-	19406-51-0		1,930.
Dinoseb	88-85-7	390.	616.
Dioxane, 1,4-	123-91-1	260.	157.
Diphenamid	957-51-7	30,700.	18,500.
Diphenyl Sulfone	127-63-9	3,070.	1,850.
Diphenylamine	122-39-4	570.	15,400.
Diphenylhydrazine, 1,2-	122-66-7	3.58	2.15
Diquat	85-00-7	2,250.	1,350.
Direct Black 38	1937-37-7	0.333	0.233
Direct Blue 6	2602-46-2	0.353	0.233
Direct Brown 95	16071-86-6	0.308	0.257
Disulfoton	298-04-4	40.9	24.6
Dithiane, 1,4-	505-29-3	1,600.	6,160.
Diuron	330-54-1	2,040.	1,230.
Endosulfan	115-29-7	6,130.	3,690.
Endothall	145-73-3	2,100.	12,300.
Endrin	72-20-8	307.	185.
Epichlorohydrin	106-89-8	40.	105.
Epoxybutane, 1,2-	106-88-7	170.	887.
EPTC	759-94-4	3,200.	617.

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Contaminant	CAS	Option-1 (SSL)	Option-2 (RSL)
Ethephon	16672-87-0	5,110.	3,080.
Ethion	563-12-2	511.	308.
Ethoxyethanol Acetate, 2-	111-15-9	307,000.	185,000.
Ethoxyethanol, 2-	110-80-5	42,000.	246,000.
Ethyl Acetate	141-78-6	11,000.	11,000.
Ethyl Acrylate	140-88-5	59.6	59.6
Ethyl Chloride	75-00-3	1,200.	2,200.
Ethyl Ether	60-29-7	14,000.	8,210.
Ethyl Methacrylate	97-63-2	870.	1,170.
Ethylbenzene	100-41-4	400.	37.8
Ethylene Cyanohydrin	109-78-4	30,700.	18,500.
Ethylene Diamine	107-15-3	92,000.	55,400.
Ethylene Glycol Monobutyl Ether	111-76-2	470,000.	308,000.
Ethylene Oxide	75-21-8	0.32	1.06
Ethylene Thiourea	96-45-7	26.	38.3
Ethyl-p-nitrophenyl Phosphonate	2104-64-5	10.2	6.16
Express	101200-48-0	8,180.	4,930.
Fenamiphos	22224-92-6	256.	154.
Fenpropathrin	39515-41-8	25,600.	15,400.
Fluometuron	2164-17-2	13,300.	8,000.
Fluoranthene	206-44-0	40,900.	22,000.
Fluorene	86-73-7	40,900.	22,000.
Fluorine (Soluble Fluoride)	7782-41-4	61,300.	61,300.
Fluorobiphenyl, 2-	321-60-8		1,560.
Fluridone	59756-60-4	93.	49,300.
Flurprimidol	56425-91-3	20,400.	12,300.
Flutolanil	66332-96-5	61,300.	36,900.
Fluvalinate	69409-94-5	150.	6,160.
Folpet	133-07-3	818.	493.
Fomesafen	72178-02-0	15.1	9.07
Fonofos	944-22-9	2,040.	1,230.
Formaldehyde	50-00-0	37.	123,000.
Furan	110-00-9	1,020.	1,020.
Furazolidone	67-45-8	0.753	0.454
Furfural	98-01-1	1,100.	1,850.
Furium	531-82-8	0.0572	1.15
Furmecyclox	60568-05-0	95.4	57.5
Glufosinate, Ammonium	77182-82-2	409.	246.
Glycidyl	765-34-4	409.	246.
Glyphosate	1071-83-6	102,000.	61,600.
Goal	42874-03-3	3,070.	1,850.
Guthion	86-50-0		1,850.
Haloxypop, Methyl	69806-40-2	51.1	30.8
Harmony	79277-27-3	13,300.	8,000.
Heptachlor	76-44-8	0.636	0.383
Heptachlor Epoxide	1024-57-3	0.314	0.189
Heptachlorobiphenyl, 2,3,3',4,4',5,5'-(PCB 189)	39635-31-9		0.114
Heptane, N-	142-82-5		58.6
Hexabromobenzene	87-82-1	0.086	1,230.
Hexabromodiphenyl ether, 2,2',4,4',5,5'-(BDE-153)	68631-49-2		204.

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Contaminant	CAS	Option-1 (SSL)	Option-2 (RSL)
Hexachlorobenzene	118-74-1	1.79	1.08
Hexachlorobiphenyl, 2,3,3',4,4',5,5'-(PCB 156)	38380-08-4		0.00229
Hexachlorobiphenyl, 2,3,3',4,4',5,5'-(PCB 157)	69782-90-7		0.00229
Hexachlorobiphenyl, 2,3',4,4',5,5'-(PCB 167)	52663-72-6		0.114
Hexachlorobiphenyl, 3,3',4,4',5,5'-(PCB 169)	32774-16-6		0.114
Hexachlorobutadiene	87-68-3	18.	22.1
Hexachlorocyclohexane, Alpha-	319-84-6	0.454	0.274
Hexachlorocyclohexane, Beta-	319-85-7	1.59	0.958
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	2.2	2.06
Hexachlorocyclohexane, Technical	608-73-1	1.59	0.958
Hexachlorocyclopentadiene	77-47-4	56.	3,680.
Hexachlorodibenzo-p-dioxin	34465-46-8		0.000184
Hexachloroethane	67-72-1	120.	123.
Hexachlorophene	70-30-4	307.	185.
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	26.	23.7
Hexamethylene Diisocyanate, 1,6-	822-06-0	4.4	21.5
Hexane, N-	110-54-3	0.168	142.
Hexane, N-	110-54-3	280.	142.
Hexanone, 2-	591-78-6		3,130.
Hexazinone	51235-04-2	33,700.	20,300.
HpCDD, 2,3,7,8-	37871-00-4		0.183
HpCDF, 1,2,3,4,7,8,9-	55673-89-7		0.132
HxCDD, 1,2,3,6,7,8-	57653-85-7		0.176
HxCDF, 1,2,3,7,8,9-	72918-21-9		0.129
HxCDF, 2,3,4,6,7,8-	60851-34-5		0.000133
Hydrazine	302-01-2	0.12	0.954
Hydrazine Sulfate	10034-93-2	0.954	0.954
Hydrogen Cyanide	74-90-8	20,400.	20,400.
Hydrogen Fluoride	7664-39-3		40,900.
Hydroquinone	123-31-9	51.1	30.8
Imazalil	35554-44-0	13,300.	8,000.
Imazaquin	81335-37-7	256,000.	154,000.
Indeno[1,2,3-cd]pyrene	193-39-5	3.92	2.11
Iodine	7553-56-2		10,200.
Iodomethane	74-88-4		3,130.
Iprodione	36734-19-7	40,900.	24,600.
Iron	7439-89-6		715,000.
Isobutyl Alcohol	78-83-1	11,000.	9,550.
Isophorone	78-59-1	3,010.	1,810.
Isopropalin	33820-53-0	330.	9,230.
Isopropyl Methyl Phosphonic Acid	1832-54-8	5,600.	61,600.
Isopropyltoluene, p-	99-87-6		190.
Isoxaben	82558-50-7	51,100.	30,800.
Kerb	23950-58-5	560.	46,200.
Kerosene	8008-20-6		0.367
Lactofen	77501-63-4	2,040.	1,230.
Lead and Compounds	7439-92-1		800.
Linuron	330-55-2	2,040.	1,230.
Lithium	7439-93-2		2,040.
Londax	83055-99-6	204,000.	123,000.

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Industrial d-c Reference RCLs: Option-1 / Option-2 COMPARISON

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If Contaminant is in red font, Option-2 > Option-1	(All values are in mg/kg.)		If in red font, Option-2 > 10 x Option-1
	CAS	Option-1 (SSL)	
Malathion	121-75-5	570.	12,300.
Maleic Anhydride	108-31-6	102,000.	60,700.
Maleic Hydrazide	123-33-1	910.	308,000.
Malononitrile	109-77-3	102.	61.6
Maneb	12427-38-2	5,110.	3,080.
Manganese (Water)	7439-96-5	47,000.	22,700.
MCPA	94-74-6	511.	308.
MCPB	94-81-5	800.	6,160.
MCPD	93-65-2	1,020.	616.
Meposfolan	950-10-7	92.	55.4
Mepiquat Chloride	24307-26-4	30,700.	18,500.
Mercuric Chloride	7487-94-7	307.	307.
Mercuric Sulfide	1344-48-5	307.	307.
Mercury (elemental)	7439-97-6	2.9	3.13
Merphos	150-50-5	30.7	18.5
Merphos Oxide	78-48-8	30.7	18.5
Metalaxyl	57837-19-1	61,300.	36,900.
Methacrylonitrile	126-98-7	15.	23.6
Methamidophos	10265-92-6	51.1	30.8
Methanol	67-56-1	100,000.	308,000.
Methidathion	950-37-8	1,020.	616.
Methomyl	16752-77-5	6,000.	15,400.
Methoxy-5-nitroaniline, 2-	99-59-2	62.2	35.2
Methoxychlor	72-43-5	5,110.	3,080.
Methoxyethanol Acetate, 2-	110-49-6	2,040.	1,230.
Methoxyethanol, 2-	109-86-4	1,020.	1,850.
Methyl Acetate	79-20-9	1,020,000.	29,400.
Methyl Acrylate	96-33-3	30,700.	6,920.
Methyl Ethyl Ketone (2-Butanone)	78-93-3	24,000.	27,500.
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	2,700.	3,160.
Methyl Mercaptan	74-93-1	5.	3,230.
Methyl Mercury	22967-92-6	102.	102.
Methyl Methacrylate	80-62-6	2,700.	2,450.
Methyl methanesulfonate	66-27-3		17.4
Methyl Parathion	298-00-0	39.	154.
Methyl Phosphonic Acid	993-13-5	20,400.	12,300.
Methyl Styrene (Mixed Isomers)	25013-15-4	6,130.	451.
Methyl tert-Butyl Ether (MTBE)	1634-04-4	8,700.	254.
Methyl-2-Pentanol, 4-	108-11-2		2,220.
Methyl-5-Nitroaniline, 2-	99-55-8	86.7	52.2
Methylaniline Hydrochloride, 2-	636-21-5	15.9	13.3
Methylarsonic acid	124-58-3		6,160.
Methylcholanthrene, 3-	56-49-5		0.0784
Methylcyclohexane	108-87-2	490.	70.5
Methylcyclopentane	96-37-7	160.	159.
Methylene Chloride	75-09-2	29.	70.6
Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	22.	17.2
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	101-61-1	62.2	37.5
Methylenebisbenzenamine, 4,4'-	101-77-9		1.08
Methylnaphthalene, 1-	90-12-0		98.7

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Appendix B

Industrial d-c Reference RCLs: Option-1 / Option-2 COMPARISON

Generally, Option-2 (RSL) will be less than Option-1 (SSL). Exceptions are noted in red.

If Contaminant is in red font, Option-2 > Option-1	(All values are in mg/kg.)		If in red font, Option-2 > 10 x Option-1
	CAS	Option-1 (SSL)	
Methylnaphthalene, 2-	91-57-6	4,090.	442.
Methylstyrene, Alpha-	98-83-9	71,500.	447.
Metolachlor	51218-45-2	153,000.	92,300.
Metribuzin	21087-64-9	1,300.	15,400.
Mirex	2385-85-5	204.	0.0958
Molinate	2212-67-1	2,040.	1,230.
Molybdenum	7439-98-7	5,110.	5,110.
Monochloramine	10599-90-3	102,000.	102,000.
Monomethylaniline	100-61-8		1,230.
N,N'-Diphenyl-1,4-benzenediamine	74-31-7	0.168	185.
N,N'-Diphenyl-1,4-benzenediamine	74-31-7	307.	185.
Naled	300-76-5	2,040.	1,230.
Naphthalene	91-20-3	330.	27.
Naphthylamine, 2-	91-59-8		0.958
Napropamide	15299-99-7	102,000.	61,600.
Nickel Soluble Salts	7440-02-0	20,400.	19,700.
Nickel Soluble Salts	7440-02-0	20,400.	19,700.
Nickel Subulfide	12035-72-2	11,600.	1.68
Nitrite	14797-65-0	102,000.	102,000.
Nitroaniline, 2-	88-74-4	2.3	1,840.
Nitroaniline, 4-	100-01-6	136.	86.2
Nitrobenzene	98-95-3	170.	30.7
Nitrofurantoin	67-20-9	71,500.	43,100.
Nitrofurazone	59-87-0	1.91	1.33
Nitroglycerin	55-63-0		61.6
Nitroguanidine	556-88-7	102,000.	61,600.
Nitromethane	75-52-5		32.8
Nitrophenol, 2-	88-75-5		4,980.
Nitropropane, 2-	79-46-9	0.032	0.0827
Nitrosodiethanolamine, N-	1116-54-7	1.02	0.616
Nitrosodiethylamine, N-	55-18-5	0.011	0.0115
Nitrosodimethylamine, N-	62-75-9	0.039	0.0338
Nitroso-di-N-butylamine, N-	924-16-3	0.53	0.45
Nitroso-di-N-propylamine, N-	621-64-7	0.409	0.246
Nitrosodiphenylamine, N-	86-30-6	584.	352.
Nitrosomethylethylamine, N-	10595-95-6	0.13	0.0784
Nitrosomorpholine [N-]	59-89-2		0.257
Nitroso-N-ethylurea, N-	759-73-9	0.0204	0.0638
Nitroso-N-methylurea, N-	684-93-5		0.0144
Nitrosopiperidine [N-]	100-75-4		0.183
Nitrosopyrrolidine, N-	930-55-2	1.36	0.821
Nitrotoluene, m-	99-08-1	980.	12,300.
Nitrotoluene, o-	88-72-2	12.4	13.
Nitrotoluene, p-	99-99-0	69.	108.
Norflurazon	27314-13-2	40,900.	24,600.
Nustar	85509-19-9	715.	431.
OCDD	3268-87-9		0.184
OCDF	39001-02-0		0.133
Octabromodiphenyl Ether	32536-52-0	3,070.	1,850.
Octahydro-1,3,5,7-tetrahydro-1,3,5,7-tetra (HMX)	2691-41-0	51,100.	49,200.

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Appendix B

Industrial d-c Reference RCLs: Option-1 / Option-2 COMPARISON

Generally, Option-2 (RSL) will be less than Option-1 (SSL). Exceptions are noted in red.

If Contaminant is in red font, Option-2 > Option-1	(All values are in mg/kg.)		If in red font, Option-2 > 10 x Option-1
	CAS	Option-1 (SSL)	
Octamethylpyrophosphoramide	152-16-9	2,040.	1,230.
Octanone, 2-	111-13-7		330.
Octanone, 3-	106-68-3		986.
Oryzalin	19044-88-3	7.5	30,800.
Oxadiazon	19666-30-9	5,110.	3,080.
Oxamyl	23135-22-0	25,600.	15,400.
Paclbutrazol	76738-62-0	13,300.	8,000.
Paraquat Dichloride	1910-42-5	4,600.	2,770.
Parathion	56-38-2	40.	3,690.
Peblulate	1114-71-2	51,100.	30,800.
PeCDF, 1,2,3,7,8-	57117-41-6		0.00265
PeCDF, 2,3,4,7,8-	57117-31-4		0.0000265
Pendimethalin	40487-42-1	40,900.	24,600.
Pentabromodiphenyl Ether	32534-81-9	2,040.	1,230.
Pentabromodiphenyl ether, 2,2',4,4',5'- (BDE-99)	60348-60-9		102.
Pentachlorobenzene	608-93-5	510.	493.
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4		0.114
Pentachlorobiphenyl, 2,3,4,4',5'- (PCB 114)	74472-37-0		0.00229
Pentachlorobiphenyl, 2,3',4,4',5'- (PCB 118)	31508-00-6		0.114
Pentachlorobiphenyl, 2',3,4,4',5'- (PCB 123)	65510-44-3		0.114
Pentachlorobiphenyl, 3,3',4,4',5'- (PCB 126)	57465-28-8		0.000114
Pentachloroethane	76-01-7		19.2
Pentachloronitrobenzene	82-68-8	11.	6.63
Pentachlorophenol	87-86-5	23.8	9.
Pentyl Alcohol, N-	71-41-0		2,800.
Perchlorate and Perchlorate Salts	14797-73-0		715.
Permethrin	52645-53-1	51,100.	30,800.
Phenacetin	62-44-2		784.
Phenanthrene	85-01-8		144.
Phenmedipham	13684-63-4	256,000.	154,000.
Phenol	108-95-2	307,000.	185,000.
Phenylenediamine, m-	108-45-2	6,130.	3,690.
Phenylenediamine, o-	95-54-5	60.9	36.7
Phenylenediamine, p-	106-50-3	194,000.	117,000.
Phenylmercuric Acetate	62-38-4	81.8	49.3
Phenylphenol, 2-	90-43-7	1,480.	889.
Phorate	298-02-2	204.	123.
Phosgene	75-44-5		2.3
Phosmet	732-11-6	20,400.	12,300.
Phosphine	7803-51-2	307.	307.
Phosphorus, White	7723-14-0	20.4	20.4
Phthalic Acid, P-	100-21-0	1,020,000.	616,000.
Picramic Acid (2-Amino-4,6-dinitrophenol)	96-91-3	2,040.	1,230.
Pirimiphos, Methyl	29232-93-7	10,200.	6,160.
Polybrominated Biphenyls	59536-65-1		0.0575
Polychlorinated Biphenyls (high risk)	1336-36-3		0.744
Potassium Cyanide	151-50-8	51,100.	51,100.
Potassium Perchlorate	7778-74-7		715.
Potassium Silver Cyanide	506-61-6	204,000.	204,000.
Prochloraz	67747-09-5	19.1	11.5

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Generally, Option-2 (RSL) will be less than Option-1 (SSL). Exceptions are noted in red.

If Contaminant is in red font, Option-2 > Option-1	(All values are in mg/kg.)		If in red font, Option-2 > 10 x Option-1
	CAS	Option-1 (SSL)	
Profluralin	26399-36-0	180.	3,690.
Prometon	1610-18-0	15,300.	9,230.
Prometryn	7287-19-6	4,090.	2,460.
Propachlor	1918-16-7	13,300.	8,000.
Propanil	709-98-8	5,110.	3,080.
Propargite	2312-35-8	20,400.	12,300.
Propargyl Alcohol	107-19-7	2,040.	1,230.
Propazine	139-40-2	20,400.	12,300.
Propham	122-42-9	20,400.	12,300.
Propiconazole	60207-90-1	13,300.	8,000.
Propionaldehyde	123-38-6		495.
Propionitrile	107-12-0		15,500.
Propyl benzene	103-65-1		309.
Propylene Glycol Dinitrate	6423-43-4		345.
Propylene Glycol Monoethyl Ether	1569-02-4	715,000.	431,000.
Propylene Glycol Monomethyl Ether	107-98-2	180,000.	431,000.
Propylene Oxide	75-56-9	9.3	9.36
Pursuit	81335-77-5	256,000.	154,000.
Pydrin	51630-58-1	25,600.	15,400.
Pyrene	129-00-0	30,700.	16,500.
Pyridine	110-86-1	1,020.	1,020.
Quinalphos	13593-03-8	130.	308.
Quinoline	91-22-5	0.954	0.575
Resmethrin	10453-86-8	30,700.	18,500.
Ronnol	299-84-3	51,100.	30,800.
Rotenone	83-79-4	4,090.	2,460.
Safrole	94-59-7		7.84
Savey	78587-05-0	25,600.	15,400.
Selenious Acid	7783-00-8	5,110.	5,110.
Selenium	7782-49-2	5,110.	5,110.
Selenourea	630-10-4	5,110.	3,080.
Sethoxydim	74051-80-2	92,000.	55,400.
Silver	7440-22-4	5,110.	5,110.
Silver Cyanide	506-64-9	102,000.	102,000.
Simazine	122-34-9	23.8	14.4
Sodium Acifluorfen	62476-59-9	13,300.	8,000.
Sodium Azide	26628-22-8	4,090.	4,090.
Sodium Cyanide	143-33-9	40,900.	40,900.
Sodium Diethyldithiocarbamate	148-18-5	10.6	6.38
Sodium Fluoride	7681-49-4		51,100.
Sodium Fluoroacetate	62-74-8	20.4	12.3
Sodium Metavanadate	13718-26-8	1,020.	1,020.
Sodium Perchlorate	7601-89-0		715.
Stiufos (Tetrachlorovinphos)	961-11-5	119.	71.8
Strontium, Stable	7440-24-6	613,000.	613,000.
Strychnine	57-24-9	92.	185.
Styrene	100-42-5	1,500.	1,000.
Sulfonylbis(4-chlorobenzene), 1,1'-	80-07-9	5,110.	3,080.
Sulfur Mustard	505-60-2		1,200.
Systhane	88671-89-0	25,600.	15,400.

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If Contaminant is in red font, Option-2 > Option-1	(All values are in mg/kg.)		If in red font, Option-2 > 10 x Option-1
Contaminant	CAS	Option-1 (SSL)	Option-2 (RSL)
TCDD, 2,3,7,8-	1746-01-6	0.0000191	0.0000184
TCDF, 2,3,7,8-	51207-31-9		0.000133
TCMTB	21564-17-0	30,700.	18,500.
Tebuthiuron	34014-18-1	71,500.	43,100.
Temephos	3383-96-8	20,400.	12,300.
Terbacil	5902-51-2	13,300.	8,000.
Terbufos	13071-79-9	25.6	15.4
Terbutryn	886-50-0	1,020.	616.
Tetrabromodiphenyl ether, 2,2',4,4'-(BDE-47)	5436-43-1		102.
Tetrachlorobenzene, 1,2,4,5-	95-94-3	16.	185.
Tetrachlorobiphenyl, 3,3',4,4'-(PCB 77)	32598-13-3		0.114
Tetrachlorobiphenyl, 3,4,4',5-(PCB 81)	70362-50-4		0.114
Tetrachloroethane, 1,1,1,2-	630-20-6	15.	13.1
Tetrachloroethane, 1,1,2,2-	79-34-5	1.3	3.69
Tetrachloroethylene	127-18-4	24.	3.11
Tetrachlorophenol, 2,3,4,6-	58-90-2	29,000.	18,500.
Tetrachlorotoluene, p- alpha, alpha, alpha-	5216-25-1	0.143	0.0862
Tetraethyl Dithiopyrophosphate	3689-24-5	8.9	308.
Tetraethyl Lead	78-00-2	0.6	0.0616
Tetrafluoroethane, 1,1,1,2-	811-97-2	850.	819.
Tetrahydrofuran	109-99-9		130,000.
Tetrahydrothiophene	110-01-0		2,390.
Tetryl (Trinitrophenylmethylnitramine)	479-45-8	4,090.	2,460.
Thallium (I) Nitrate	10102-45-1	92.	92.
Thallium (Soluble Salts)	7440-28-0	81.8	66.2
Thallium Acetate	563-68-8	92.	92.
Thallium Carbonate	6533-73-9	81.8	81.8
Thallium Chloride	7791-12-0	81.8	81.8
Thallium Sulfate	7446-18-6	81.8	81.8
Thiobencarb	28249-77-6	10,200.	6,160.
Thiocyanate	463-56-9	51,100.	204.
Thiofanox	39196-18-4	307.	185.
Thiophanate, Methyl	23564-05-8	81,800.	49,300.
Thiophene	110-02-1		1,990.
Thiram	137-26-8	11.	3,080.
Tin	7440-31-5	613,000.	613,000.
Toluene	108-88-3	650.	925.
Toluene diisocyanate mixture (TDI)	26471-62-5	2,900.	68.9
Toluene-2,4-diamine	95-80-7	0.894	0.454
Toluene-2,5-diamine	95-70-5	7,900.	369,000.
Toluene-2,6-diamine	823-40-5	204,000.	18,500.
Toluidine, o- (Methylaniline, 2-)	95-53-4	11.9	9.58
Toluidine, p-	106-49-0	15.1	9.07
Toxaphene	8001-35-2	2.6	1.57
Tralomethrin	66841-25-6	7,670.	4,620.
Triallate	2303-17-5	13,300.	8,000.
Triasulfuron	82097-50-5	10,200.	6,160.
Tribromobenzene, 1,2,4-	615-54-3	170.	3,080.
Tributyl Phosphate	126-73-8	530.	187.
Tributyltin Oxide	56-35-9	307.	185.

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If Contaminant is in red font, Option-2 > Option-1	(All values are in mg/kg.)		If in red font, Option-2 > 10 x Option-1
Contaminant	CAS	Option-1 (SSL)	Option-2 (RSL)
Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1	930.	938.
Trichloroaniline HCl, 2,4,6-	33663-50-2	98.7	59.4
Trichloroaniline, 2,4,6-	634-93-5	84.2	50.7
Trichlorobenzene, 1,2,3-	87-61-6		81.1
Trichlorobenzene, 1,2,4-	120-82-1	340.	216.
Trichloroethane, 1,1,1-	71-55-6	1,200.	677.
Trichloroethane, 1,1,2-	79-00-5	2.2	7.3
Trichloroethylene	79-01-6	0.16	19.
Trichlorofluoromethane	75-69-4	1,700.	1,260.
Trichlorophenol, 2,4,5-	95-95-4	102,000.	61,600.
Trichlorophenol, 2,4,6-	88-06-2	260.	157.
Trichlorophenoxy) Propionic Acid, 2(2,4,5-	93-72-1	8,180.	4,930.
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5	1,100.	6,160.
Trichloropropane, 1,1,2-	598-77-6	5,110.	1,410.
Trichloropropane, 1,2,3-	96-18-4	0.409	0.409
Trichloropropene, 1,2,3-	96-19-5	460.	15.9
Trichlorotoluene, 2,3,6-	2077-46-5		51.4
Trichlorotoluene, alpha 2,6-	2014-83-7		129.
Tridiphenyl	58138-08-2	3,070.	1,850.
Triethyl phosphorothioate [O,O,O-]	126-68-1		221.
Triethylamine	121-44-8	330.	972.
Trifluralin	1582-09-8	372.	224.
Trimethyl Phosphate	512-56-1	77.3	46.6
Trimethylbenzene, 1,2,4-	95-63-6	240.	254.
Trimethylbenzene, 1,3,5-	108-67-8	140.	211.
Trimethylpentane, 2,2,4-	540-84-1		61.7
Tri-n-butyltin	688-73-3		185.
Trinitrobenzene, 1,3,5-	99-35-4	65.	27,200.
Trinitrotoluene, 2,4,6-	118-96-7	13.	78.8
Triphenylphosphine Oxide	791-28-6	20,400.	12,300.
Tris(2-chloroethyl)phosphate	115-96-8	204.	123.
Tris(2-ethylhexyl)phosphate	78-42-2	894.	539.
Vanadium Pentoxide	1314-62-1	9,200.	2,010.
Vanadium Sulfate	36907-42-3	20,400.	20,400.
Vanadium, Metallic	7440-62-2	7,150.	7,150.
Vernolate	1929-77-7	1,020.	616.
Vinclozolin	50471-44-8	25,600.	15,400.
Vinyl Acetate	108-05-4	1,900.	2,810.
Vinyl Bromide	593-60-2	26.	0.791
Vinyl Chloride	75-01-4	0.65	1.99
Warfarin	81-81-2	307.	185.
Xylene, m-	108-38-3	420.	444.
Xylene, Mixture	1330-20-7	1,300.	298.
Xylene, o-	95-47-6	410.	297.
Xylene, P-	106-42-3	460.	447.
Zinc (Metallic)	7440-66-6	307,000.	307,000.
Zinc Cyanide	557-21-1	51,100.	51,100.
Zinc Phosphide	1314-84-7	307.	307.
Zineb	12122-67-7	51,100.	30,800.

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