



Draft Rules Tables

Cleaner Air Oregon and Air Toxics Alignment and Updates 2021

340-245-8010 Table 1 Risk Action Levels

 OAR 340-245-8010 Table 1 Risk Action Levels†			
Applicability	Risk Action Level	Excess Cancer Risk per Million	Noncancer Hazard Index
New and Reconstructed Source	Aggregate TEU Level	0.5	0.1
	Source Permit Level	0.5	0.5
	Community Engagement Level	5	1
	TLAER Level	10	1
	Permit Denial Level	25	1
Existing Source	Aggregate TEU Level	2.5	0.1
	Source Permit Level	5	0.5
	Community Engagement Level	25	1
	TBACT Level	50	5 ^a or 3 ^b or Risk Determination Ratio of 1.0 ^c
	Risk Reduction Level	200	10 ^a or 6 ^b or Risk Determination Ratio of 2.0 ^c
	Immediate Curtailment Level	500	20 ^a or 12 ^b or Risk Determination Ratio of 4.0 ^c

Footnotes for OAR 340-245-8010 Table 1:

- † Facility risk that is equal to or less than the values in the table is considered compliant with the Risk Action Level. Risk Action Levels are considered consistent with benchmarks in Oregon Laws 2018, chapter 102 (Senate Bill (SB) 1541 (2018)).
- a) If all toxic air contaminants emitted by the source are identified as HI5 in OAR 340-247-8010, Table 2, and OAR 340-245-8010, Table 2.
- b) If all toxic air contaminants emitted by the source are identified as HI3 in OAR 340-247-8010, Table 2, and OAR 340-245-8010, Table 2.
- c) If toxic air contaminants emitted by the source include contaminants listed as both HI3 and HI5 in OAR 340-247-8010, Table 2, and OAR 340-245-8010, Table 2, and a Risk Determination Ratio is required to be calculated under OAR 340-245-0200.

340-247-8010 Table1
Toxic Air Contaminant Priority List


OAR 340-247-8010
Table 1 Toxic Air Contaminant Priority List

CASRN^a	Chemical Name
75-07-0	Acetaldehyde
60-35-5	Acetamide
67-64-1	Acetone
75-05-8	Acetonitrile
98-86-2	Acetophenone
107-02-8	Acrolein
79-06-1	Acrylamide
79-10-7	Acrylic acid
107-13-1	Acrylonitrile
50-76-0	Actinomycin D
1596-84-5	Alar
309-00-2	Aldrin
107-05-1	Allyl chloride
7429-90-5	Aluminum and compounds ^b
1344-28-1	Aluminum oxide (fibrous forms)
97-56-3	<i>ortho</i> -Aminoazotoluene
6109-97-3	3-Amino-9-ethylcarbazole hydrochloride
68006-83-7	2-Amino-3-methyl-9H pyrido[2,3-b]indole
82-28-0	1-Amino-2-methylantraquinone
76180-96-6	2-Amino-3-methylimidazo-[4,5-f]quinoline
712-68-5	2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole
26148-68-5	A- α -c(2-amino-9h-pyrido[2,3-b]indole)
92-67-1	4-Aminobiphenyl
61-82-5	Amitrole
7664-41-7	Ammonia
7803-63-6	Ammonium bisulfate
6484-52-2	Ammonium nitrate
7783-20-2	Ammonium sulfate
62-53-3	Aniline
90-04-0	<i>o</i> -Anisidine
134-29-2	<i>o</i> -Anisidine hydrochloride
7440-36-0	Antimony and compounds ^b
1309-64-4	Antimony trioxide
140-57-8	Aramite
7440-38-2	Arsenic and compounds ^b
7784-42-1	Arsine
1332-21-4	Asbestos



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Table 1 Toxic Air Contaminant Priority List

CASRN ^a	Chemical Name
492-80-8	Auramine
115-02-6	Azaserine
446-86-6	Azathioprine
52-24-4	<i>tris</i> -(1-Aziridinyl)phosphine sulfide
103-33-3	Azobenzene
7440-39-3	Barium and compounds ^b
71-43-2	Benzene
92-87-5	Benzidine (and its salts)
271-89-6	Benzofuran
98-07-7	Benzoic trichloride (benzotrichloride)
98-88-4	Benzoyl chloride
94-36-0	Benzoyl peroxide
100-44-7	Benzyl chloride
1694-09-3	Benzyl Violet 4B
7440-41-7	Beryllium and compounds ^b
1304-56-9	Beryllium oxide
13510-49-1	Beryllium sulfate
92-52-4	Biphenyl
111-44-4	<i>Bis</i> (2-chloroethyl) ether (BCEE)
542-88-1	<i>Bis</i> (chloromethyl) ether
103-23-1	<i>Bis</i> (2-ethylhexyl) adipate
117-81-7	<i>Bis</i> (2-ethylhexyl) phthalate (DEHP)
7726-95-6	Bromine and compounds ^b
7789-30-2	Bromine pentafluoride
75-27-4	Bromodichloromethane
75-25-2	Bromoform
74-83-9	Bromomethane (methyl bromide)
106-94-5	1-Bromopropane (<i>n</i> -propyl bromide)
126-72-7	<i>tris</i> (2,3-Dibromopropyl)phosphate
106-99-0	1,3-Butadiene
78-93-3	2-Butanone (methyl ethyl ketone)
540-88-5	<i>t</i> -Butyl acetate
141-32-2	Butyl acrylate
71-36-3	<i>n</i> -Butyl alcohol
78-92-2	<i>sec</i> -Butyl alcohol
75-65-0	<i>tert</i> -Butyl alcohol
85-68-7	Butyl benzyl phthalate
25013-16-5	Butylated hydroxyanisole
3068-88-0	<i>beta</i> -Butyrolactone



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Table 1 Toxic Air Contaminant Priority List

CASRN ^a	Chemical Name
7440-43-9	Cadmium and compounds ^b
156-62-7	Calcium cyanamide
105-60-2	Caprolactam
2425-06-1	Captafol
133-06-2	Captan
89 [†]	Carbon black extracts
75-15-0	Carbon disulfide
56-23-5	Carbon tetrachloride
463-58-1	Carbonyl sulfide
9000-07-1	Carrageenan (degraded)
120-80-9	Catechol
351 [†]	Ceramic fibers
133-90-4	Chloramben
305-03-3	Chlorambucil
57-74-9	Chlordane
143-50-0	Chlordecone
115-28-6	Chlorendic acid
76-13-1	Chlorinated fluorocarbon (1,1,2-trichloro-1,2,2-trifluoroethane, CFC-113)
108171-26-2	Chlorinated paraffins
7782-50-5	Chlorine
10049-04-4	Chlorine dioxide
79-11-8	Chloroacetic acid
532-27-4	2-Chloroacetophenone
85535-84-8	Chloroalkanes C10-13 (chlorinated paraffins)
106-47-8	<i>p</i> -Chloroaniline
108-90-7	Chlorobenzene
510-15-6	Chlorobenzilate (ethyl-4,4'-dichlorobenzilate)
75-68-3	1-Chloro-1,1-difluoroethane
75-45-6	Chlorodifluoromethane (Freon 22)
75-00-3	Chloroethane (ethyl chloride)
67-66-3	Chloroform
74-87-3	Chloromethane (methyl chloride)
107-30-2	Chloromethyl methyl ether (technical grade)
563-47-3	3-Chloro-2-methyl-1-propene
95-57-8	2-Chlorophenol
95-83-0	4-Chloro- <i>o</i> -phenylenediamine
76-06-2	Chloropicrin
126-99-8	Chloroprene
1897-45-6	Chlorothalonil



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Table 1 Toxic Air Contaminant Priority List

CASRN ^a	Chemical Name
95-69-2	<i>p</i> -Chloro- <i>o</i> -toluidine
54749-90-5	Chlorozotocin
18540-29-9	Chromium VI, chromate and dichromate particulate
7738-94-5	Chromium VI, chromic acid aerosol mist and chromium trioxide
569-61-9	C.I. Basic Red 9 monohydrochloride
87-29-6	Cinnamyl anthranilate
7440-48-4	Cobalt and compounds ^b
148 [†]	Coke oven emissions
7440-50-8	Copper and compounds ^b
150 [†]	Creosotes
120-71-8	<i>p</i> -Cresidine
1319-77-3	Cresols (mixture), including <i>m</i> -cresol, <i>o</i> -cresol, <i>p</i> -cresol
108-39-4	<i>m</i> -Cresol
95-48-7	<i>o</i> -Cresol
106-44-5	<i>p</i> -Cresol
4170-30-3	Crotonaldehyde
80-15-9	Cumene hydroperoxide
135-20-6	Cupferron
74-90-8	Cyanide, hydrogen
110-82-7	Cyclohexane
108-93-0	Cyclohexanol
66-81-9	Cycloheximide
50-18-0	Cyclophosphamide (anhydrous)
6055-19-2	Cyclophosphamide (hydrated)
5160-02-1	D & C Red No. 9
4342-03-4	Dacarbazine
117-10-2	Danthron (chrysazin)
72-54-8	4,4'-DDD (4,4'-dichlorodiphenyldichloroethane)
53-19-0	2,4'-DDD (2,4'-dichlorodiphenyldichloroethane)
3547-04-4	DDE (1-chloro-4-[1-(4-chlorophenyl)ethyl]benzene)
3424-82-6	2,4'-DDE (2,4'-dichlorodiphenyldichloroethene)
72-55-9	4,4'-DDE (4,4'-dichlorodiphenyldichloroethene)
789-02-6	2,4'-DDT (2,4'-dichlorodiphenyltrichloroethane)
50-29-3	DDT
615-05-4	2,4-Diaminoanisole
39156-41-7	2,4-Diaminoanisole sulfate
101-80-4	4,4'-Diaminodiphenyl ether
95-80-7	2,4-Diaminotoluene (2,4-toluene diamine)
334-88-3	Diazomethane



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Table 1 Toxic Air Contaminant Priority List

CASRN ^a	Chemical Name
333-41-5	Diazinon
132-64-9	Dibenzofuran
124-48-1	Dibromochloromethane
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)
96-13-9	2,3-Dibromo-1-propanol
84-74-2	Dibutyl phthalate
95-50-1	1,2-Dichlorobenzene
541-73-1	1,3-Dichlorobenzene
106-46-7	<i>p</i> -Dichlorobenzene (1,4-dichlorobenzene)
91-94-1	3,3'-Dichlorobenzidine
75-71-8	Dichlorodifluoromethane (Freon 12)
75-43-4	Dichlorofluoromethane (Freon 21)
75-34-3	1,1-Dichloroethane (ethylidene dichloride)
156-60-5	<i>trans</i> -1,2-Dichloroethene
75-09-2	Dichloromethane (methylene chloride)
120-83-2	2,4-Dichlorophenol
94-75-7	Dichlorophenoxyacetic acid, salts and esters (2,4-D)
78-87-5	1,2-Dichloropropane (propylene dichloride)
542-75-6	1,3-Dichloropropene
62-73-7	Dichlorvos (DDVP)
115-32-2	Dicofol
84-61-7	Di-cyclohexyl phthalate (DCHP)
60-57-1	Dieldrin
200 [†]	Diesel particulate matter
111-42-2	Diethanolamine
111-46-6	Diethylene glycol
111-96-6	Diethylene glycol dimethyl ether
112-34-5	Diethylene glycol monobutyl ether
111-90-0	Diethylene glycol monoethyl ether
111-77-3	Diethylene glycol monomethyl ether
84-66-2	Diethylphthalate
64-67-5	Diethyl sulfate
134-62-3	Diethyltoluamide, N,N- (DEET)
75-37-6	1,1-Difluoroethane
101-90-6	Diglycidyl resorcinol ether
94-58-6	Dihydrosafrole
119-90-4	3,3'-Dimethoxybenzidine
60-11-7	4-Dimethylaminoazobenzene
121-69-7	N,N-Dimethylaniline



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Table 1 Toxic Air Contaminant Priority List

CASRN ^a	Chemical Name
119-93-7	3,3'-Dimethylbenzidine (<i>o</i> -tolidine)
79-44-7	Dimethyl carbamoyl chloride
68-12-2	Dimethyl formamide
57-14-7	1,1-Dimethylhydrazine
131-11-3	Dimethyl phthalate
77-78-1	Dimethyl sulfate
513-37-1	Dimethylvinylchloride
534-52-1	4,6-Dinitro- <i>o</i> -cresol (and salts)
51-28-5	2,4-Dinitrophenol
121-14-2	2,4-Dinitrotoluene
606-20-2	2,6-Dinitrotoluene
123-91-1	1,4-Dioxane
630-93-3	Diphenylhydantoin
122-66-7	1,2-Diphenylhydrazine (hydrazobenzene)
25265-71-8	Dipropylene glycol
34590-94-8	Dipropylene glycol monomethyl ether
1937-37-7	Direct Black 38
2602-46-2	Direct Blue 6
16071-86-6	Direct Brown 95 (technical grade)
2475-45-8	Disperse Blue 1
298-04-4	Disulfoton
106-89-8	Epichlorohydrin
106-88-7	1,2-Epoxybutane
227 [†]	Epoxy resins
12510-42-8	Erionite
140-88-5	Ethyl acrylate
100-41-4	Ethyl benzene
74-85-1	Ethylene
106-93-4	Ethylene dibromide (EDB, 1,2-dibromoethane)
107-06-2	Ethylene dichloride (EDC, 1,2-dichloroethane)
107-21-1	Ethylene glycol
629-14-1	Ethylene glycol diethyl ether
110-71-4	Ethylene glycol dimethyl ether
111-76-2	Ethylene glycol monobutyl ether
110-80-5	Ethylene glycol monoethyl ether
111-15-9	Ethylene glycol monoethyl ether acetate
109-86-4	Ethylene glycol monomethyl ether
110-49-6	Ethylene glycol monomethyl ether acetate
2807-30-9	Ethylene glycol monopropyl ether



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Table 1 Toxic Air Contaminant Priority List

CASRN ^a	Chemical Name
151-56-4	Ethyleneimine (aziridine)
75-21-8	Ethylene oxide
96-45-7	Ethylene thiourea
10028-22-5	Ferric sulfate
239 [†]	Fluorides
7782-41-4	Fluorine gas
50-00-0	Formaldehyde
110-00-9	Furan
60568-05-0	Furmecyclox
3688-53-7	Furylfuramide
352 [†]	Glasswool fibers
111-30-8	Glutaraldehyde
67730-11-4	Glu-P-1
67730-10-3	Glu-P-2
16568-02-8	Gyromitrin
2784-94-3	HC Blue 1
76-44-8	Heptachlor
1024-57-3	Heptachlor epoxide
118-74-1	Hexachlorobenzene
87-68-3	Hexachlorobutadiene
608-73-1	Hexachlorocyclohexanes (mixture) including but not limited to:
319-84-6	<i>alpha</i> -Hexachlorocyclohexane
319-85-7	<i>beta</i> -Hexachlorocyclohexane
58-89-9	<i>gamma</i> -Hexachlorocyclohexane (Lindane)
77-47-4	Hexachlorocyclopentadiene
67-72-1	Hexachloroethane
680-31-9	Hexamethylphosphoramide
822-06-0	Hexamethylene-1,6-diisocyanate
110-54-3	Hexane
302-01-2	Hydrazine
10034-93-2	Hydrazine sulfate
7647-01-0	Hydrochloric acid
10035-10-6	Hydrogen bromide
7664-39-3	Hydrogen fluoride
7783-06-4	Hydrogen sulfide
123-31-9	Hydroquinone
10043-66-0	Iodine-131
13463-40-6	Iron pentacarbonyl
78-59-1	Isophorone



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Table 1 Toxic Air Contaminant Priority List

CASRN^a	Chemical Name
78-79-5	Isoprene, except from vegetative emission sources
67-63-0	Isopropyl alcohol
98-82-8	Isopropylbenzene (cumene)
80-05-7	4,4'-Isopropylidenediphenol (bisphenol A)
303-34-4	Lasiocarpine
7439-92-1	Lead and compounds ^b
18454-12-1	Lead chromate oxide
108-31-6	Maleic anhydride
7439-96-5	Manganese and compounds ^b
148-82-3	Melphalan
3223-07-2	Melphalan HCl
7439-97-6	Mercury and compounds ^b
627-44-1	Diethylmercury
593-74-8	Dimethylmercury
22967-92-6	Methylmercury
67-56-1	Methanol
72-43-5	Methoxychlor
55738-54-0	<i>trans</i> -2[(Dimethylamino)-methylimino]-5-[2-(5-nitro-2-furyl)-vinyl]-1,3,4-oxadiazole
101-14-4	4,4'-Methylene <i>bis</i> (2-chloroaniline) (MOCA)
101-77-9	4,4'-Methylenedianiline (and its dichloride)
13552-44-8	4,4'-Methylenedianiline dihydrochloride
838-88-0	4,4'-Methylene <i>bis</i> (2-methylaniline)
101-61-1	4,4'-Methylene <i>bis</i> (<i>N,N'</i> -dimethyl)aniline
101-68-8	Methylene diphenyl diisocyanate (MDI)
60-34-4	Methyl hydrazine
540-73-8	1,2-Dimethylhydrazine
74-88-4	Methyl iodide (iodomethane)
108-10-1	Methyl isobutyl ketone (MIBK, hexone)
624-83-9	Methyl isocyanate
75-86-5	2-Methylactonitrile (acetone cyanohydrin)
80-62-6	Methyl methacrylate
66-27-3	Methyl methanesulfonate
129-15-7	2-Methyl-1-nitroanthraquinone
70-25-7	N-Methyl-N-nitro-N-nitrosoguanidine
832-69-9	1-Methylphenanthrene
2381-21-7	1-Methylpyrene
109-06-8	2-Methylpyridine
1634-04-4	Methyl <i>tert</i> -butyl ether
56-04-2	Methylthiouracil



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Table 1 Toxic Air Contaminant Priority List

CASRN ^a	Chemical Name
90-94-8	Michler's ketone
349 [†]	Mineral fiber emissions from facilities manufacturing or processing glass, rock, or slag fibers (or other mineral derived fibers) of average diameter 1 micrometer or less.
350 [†]	Mineral fibers (fine mineral fibers which are man-made, and are airborne particles of a respirable size greater than 5 microns in length, less than or equal to 3.5 microns in diameter, with a length to diameter ratio of 3:1)
2385-85-5	Mirex
50-07-7	Mitomycin C
1313-27-5	Molybdenum trioxide
315-22-0	Monocrotaline
91-59-8	2-Naphthylamine
91-20-3	Naphthalene
7440-02-0	Nickel and compounds ^b
365 [†]	Nickel compounds, insoluble
7440-02-0	Nickel metal
1313-99-1	Nickel oxide
12035-72-2	Nickel subsulfide
11113-75-0	Nickel sulfide
368 [†]	Nickel compounds, soluble
373-02-4	Nickel acetate
3333-67-3	Nickel carbonate
12607-70-4	Nickel carbonate hydroxide
13463-39-3	Nickel carbonyl
7718-54-9	Nickel chloride
12054-48-7	Nickel hydroxide
7786-81-4	Nickel sulfate
10101-97-0	Nickel sulfate hexahydrate
13478-00-7	Nickel nitrate hexahydrate
1271-28-9	Nickelocene
3570-75-0	Nifurthiazole
7697-37-2	Nitric acid
139-13-9	Nitrilotriacetic acid
18662-53-8	Nitrilotriacetic acid, trisodium salt monohydrate
99-59-2	5-Nitro- <i>o</i> -anisidine
98-95-3	Nitrobenzene
92-93-3	4-Nitrobiphenyl
1836-75-5	Nitrofen
59-87-0	Nitrofurazone
555-84-0	1-[(5-Nitrofurfurylidene)-amino]-2-imidazolidinone



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Table 1 Toxic Air Contaminant Priority List

CASRN ^a	Chemical Name
531-82-8	N-[4-(5-nitro-2-furyl)-2-thiazolyl]-acetamide
302-70-5	Nitrogen mustard N-oxide
100-02-7	4-Nitrophenol
79-46-9	2-Nitropropane
924-16-3	N-Nitrosodibutylamine
1116-54-7	N-Nitrosodiethanolamine
55-18-5	N-Nitrosodiethylamine
62-75-9	N-Nitrosodimethylamine
86-30-6	N-Nitrosodiphenylamine
156-10-5	<i>p</i> -Nitrosodiphenylamine
621-64-7	N-Nitrosodipropylamine
10595-95-6	N-Nitrosomethylethylamine
759-73-9	N-Nitroso-N-ethylurea
615-53-2	N-Nitroso-N-methylurethane
684-93-5	N-Nitroso-N-methylurea
59-89-2	N-Nitrosomorpholine
16543-55-8	N-Nitrosornicotine
100-75-4	N-Nitrosopiperidine
930-55-2	N-Nitrosopyrrolidine
39765-80-5	<i>trans</i> -Nonachlor
104-40-5	Nonylphenol, 4- (& ethoxylates)
8014-95-7	Oleum (fuming sulfuric acid)
56-38-2	Parathion
87-86-5	Pentachlorophenol
32534-81-9	Pentabromodiphenyl ether
82-68-8	Pentachloronitrobenzene (quintobenzene)
79-21-0	Peracetic acid
489 [†]	Perfluorinated compounds (PFCs)
335-67-1	Perfluorooctanoic acid (PFOA)
1763-23-1	Perfluorooctanesulfonic acid (PFOS)
62-44-2	Phenacetin
94-78-0	Phenazopyridine
136-40-3	Phenazopyridine hydrochloride
3546-10-9	Phenesterin
50-06-6	Phenobarbital
108-95-2	Phenol
59-96-1	Phenoxybenzamine
63-92-3	Phenoxybenzamine hydrochloride
106-50-3	<i>p</i> -Phenylenediamine



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Table 1 Toxic Air Contaminant Priority List

CASRN ^a	Chemical Name
132-27-4	<i>o</i> -Phenylphenate, sodium
90-43-7	2-Phenylphenol
75-44-5	Phosgene
7803-51-2	Phosphine
7664-38-2	Phosphoric acid
7723-14-0	Phosphorus and compounds ^b
10025-87-3	Phosphorus oxychloride
10026-13-8	Phosphorus pentachloride
1314-56-3	Phosphorus pentoxide
7719-12-2	Phosphorus trichloride
12185-10-3	Phosphorus, white
518 [†]	Phthalates
85-44-9	Phthalic anhydride
447 [†]	Polybrominated diphenyl ethers (PBDEs)
5436-43-1	PBDE-47 [2,2',4,4'-tetrabromodiphenyl ether]
60348-60-9	PBDE-99 [2,2',4,4',5-pentabromodiphenyl ether]
189084-64-8	PBDE-100 [2,2',4,4',6-pentabromodiphenyl ether]
182677-30-1	PBDE-138 [2,2',3,4,4',5'-hexabromodiphenyl ether]
68631-49-2	PBDE-153 [2,2',4,4',5,5'-hexabromodiphenyl ether]
207122-15-4	PBDE-154 [2,2',4,4',5,6'-hexabromodiphenyl ether]
207122-16-5	PBDE-183 [2,2',3,4,4',5',6-heptabromodiphenyl ether]
1163-19-5	PBDE-209 [decabromodiphenyl ether]
1336-36-3	Polychlorinated biphenyls (PCBs)
645 [†]	Polychlorinated biphenyls (PCBs) TEQ ^c
34883-43-7	PCB-8 [2,4'-dichlorobiphenyl]
37680-65-2	PCB 18 [2,2',5-trichlorobiphenyl]
7012-37-5	PCB-28 [2,4,4'-trichlorobiphenyl]
41464-39-5	PCB-44 [2,2',3,5'-tetrachlorobiphenyl]
35693-99-3	PCB-52 [2,2',5,5'-tetrachlorobiphenyl]
32598-10-0	PCB-66 [2,3',4,4'-tetrachlorobiphenyl]
32598-13-3	PCB 77 [3,3',4,4'-tetrachlorobiphenyl]
70362-50-4	PCB 81 [3,4,4',5-tetrachlorobiphenyl]
37680-73-2	PCB-101 [2,2',4,5,5'-pentachlorobiphenyl]
32598-14-4	PCB 105 [2,3,3',4,4'-pentachlorobiphenyl]
74472-37-0	PCB 114 [2,3,4,4',5-pentachlorobiphenyl]
31508-00-6	PCB 118 [2,3',4,4',5-pentachlorobiphenyl]
65510-44-3	PCB 123 [2,3',4,4',5'-pentachlorobiphenyl]
57465-28-8	PCB 126 [3,3',4,4',5-pentachlorobiphenyl]
38380-07-3	PCB-128 [2,2',3,3',4,4'-hexachlorobiphenyl]



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Table 1 Toxic Air Contaminant Priority List

CASRN ^a	Chemical Name
35065-28-2	PCB-138 [2,2',3,4,4',5'-hexachlorobiphenyl]
35065-27-1	PCB-153 [2,2',4,4',5,5'-hexachlorobiphenyl]
38380-08-4	PCB 156 [2,3,3',4,4',5-hexachlorobiphenyl]
69782-90-7	PCB 157 [2,3,3',4,4',5'-hexachlorobiphenyl]
52663-72-6	PCB 167 [2,3',4,4',5,5'-hexachlorobiphenyl]
32774-16-6	PCB 169 [3,3',4,4',5,5'-hexachlorobiphenyl]
35065-30-6	PCB-170 [2,2',3,3',4,4',5-heptachlorobiphenyl]
35065-29-3	PCB-180 [2,2',3,4,4',5,5'-heptachlorobiphenyl]
52663-68-0	PCB-187 [2,2',3,4',5,5',6-heptachlorobiphenyl]
39635-31-9	PCB 189 [2,3,3',4,4',5,5'-heptachlorobiphenyl]
52663-78-2	PCB-195 [2,2',3,3',4,4',5,6-octachlorobiphenyl]
40186-72-9	PCB-206 [2,2',3,3',4,4',5,5',6-nonachlorobiphenyl]
2051-24-3	PCB-209 [decachlorobiphenyl]
646 [†]	Polychlorinated dibenzo- <i>p</i> -dioxins (PCDDs) & dibenzofurans (PCDFs) TEQ ^c
1746-01-6	2,3,7,8-Tetrachlorodibenzo- <i>p</i> -dioxin (TCDD)
40321-76-4	1,2,3,7,8-Pentachlorodibenzo- <i>p</i> -dioxin (PeCDD)
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo- <i>p</i> -dioxin (HxCDD)
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo- <i>p</i> -dioxin (HxCDD)
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo- <i>p</i> -dioxin (HxCDD)
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo- <i>p</i> -dioxin (HpCDD)
3268-87-9	Octachlorodibenzo- <i>p</i> -dioxin (OCDD)
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran (TCDF)
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)
39001-02-0	Octachlorodibenzofuran (OCDF)
401 [†]	Polycyclic aromatic hydrocarbons (PAHs)
83-32-9	Acenaphthene
208-96-8	Acenaphthylene
120-12-7	Anthracene
191-26-4	Anthanthrene
56-55-3	Benz[a]anthracene
50-32-8	Benzo[a]pyrene
205-99-2	Benzo[b]fluoranthene



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Table 1 Toxic Air Contaminant Priority List

CASRN ^a	Chemical Name
205-12-9	Benzo[c]fluorene
192-97-2	Benzo[e]pyrene
191-24-2	Benzo[g,h,i]perylene
205-82-3	Benzo[j]fluoranthene
207-08-9	Benzo[k]fluoranthene
86-74-8	Carbazole
218-01-9	Chrysene
27208-37-3	Cyclopenta[c,d]pyrene
226-36-8	Dibenz[a,h]acridine
224-42-0	Dibenz[a,j]acridine
194-59-2	7H-Dibenzo[c,g]carbazole
53-70-3	Dibenz[a,h]anthracene
5385-75-1	Dibenzo[a,e]fluoranthene
192-65-4	Dibenzo[a,e]pyrene
189-64-0	Dibenzo[a,h]pyrene
189-55-9	Dibenzo[a,i]pyrene
191-30-0	Dibenzo[a,l]pyrene
206-44-0	Fluoranthene
86-73-7	Fluorene
193-39-5	Indeno[1,2,3-cd]pyrene
91-57-6	2-Methyl naphthalene
198-55-0	Perylene
85-01-8	Phenanthrene
129-00-0	Pyrene
432 [†]	Polycyclic aromatic hydrocarbon derivatives [PAH-Derivatives]
53-96-3	2-Acetylaminofluorene
117-79-3	2-Aminoanthraquinone
63-25-2	Carbaryl
57-97-6	7,12-Dimethylbenz[a]anthracene
42397-64-8	1,6-Dinitropyrene
42397-65-9	1,8-Dinitropyrene
56-49-5	3-Methylcholanthrene
3697-24-3	5-Methylchrysene
602-87-9	5-Nitroacenaphthene
7496-02-8	6-Nitrochrysene
607-57-8	2-Nitrofluorene
5522-43-0	1-Nitropyrene
57835-92-4	4-Nitropyrene
3564-09-8	Ponceau 3R



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Table 1 Toxic Air Contaminant Priority List

CASRN ^a	Chemical Name
3761-53-3	Ponceau MX
7758-01-2	Potassium bromate
671-16-9	Procarbazine
366-70-1	Procarbazine hydrochloride
1120-71-4	1,3-Propane sultone
57-57-8	<i>beta</i> -Propiolactone
123-38-6	Propionaldehyde
114-26-1	Propoxur (Baygon)
115-07-1	Propylene
6423-43-4	Propylene glycol dinitrate
107-98-2	Propylene glycol monomethyl ether
108-65-6	Propylene glycol monomethyl ether acetate
75-56-9	Propylene oxide
75-55-8	1,2-Propyleneimine (2-methylaziridine)
51-52-5	Propylthiouracil
110-86-1	Pyridine
91-22-5	Quinoline
106-51-4	Quinone
571 [†]	Radon and its decay products
572 [†]	Refractory ceramic fibers
50-55-5	Reserpine
353 [†]	Rockwool
94-59-7	Safrole
7783-07-5	Selenide, hydrogen
7782-49-2	Selenium and compounds ^b
7446-34-6	Selenium sulfide
7631-86-9	Silica, crystalline (respirable)
7440-22-4	Silver and compounds ^b
354 [†]	Slagwool
1310-73-2	Sodium hydroxide
10048-13-2	Sterigmatocystin
18883-66-4	Streptozotocin
100-42-5	Styrene
96-09-3	Styrene oxide
95-06-7	Sulfallate
7664-93-9	Sulfuric acid
505-60-2	Sulfur mustard
7446-11-9	Sulfur trioxide
358 [†]	Talc containing asbestiform fibers



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Table 1 Toxic Air Contaminant Priority List

CASRN ^a	Chemical Name
100-21-0	Terephthalic acid
40088-47-9	Tetrabromodiphenyl ether
630-20-6	1,1,1,2-Tetrachloroethane
79-34-5	1,1,2,2-Tetrachloroethane
127-18-4	Tetrachloroethene (perchloroethylene)
58-90-2	2,3,4,6-Tetrachlorophenol
811-97-2	1,1,1,2-Tetrafluoroethane
7440-28-0	Thallium and compounds ^b
62-55-5	Thioacetamide
139-65-1	4,4'-Thiodianiline
62-56-6	Thiourea
7550-45-0	Titanium tetrachloride
108-88-3	Toluene
26471-62-5	Toluene diisocyanates (2,4- and 2,6-)
584-84-9	Toluene-2,4-diisocyanate
91-08-7	Toluene-2,6-diisocyanate
95-53-4	<i>o</i> -Toluidine
636-21-5	<i>o</i> -Toluidine hydrochloride
41903-57-5	Total tetrachlorodibenzo- <i>p</i> -dioxin
36088-22-9	Total pentachlorodibenzo- <i>p</i> -dioxin
34465-46-8	Total hexachlorodibenzo- <i>p</i> -dioxin
37871-00-4	Total heptachlorodibenzo- <i>p</i> -dioxin
55722-27-5	Total tetrachlorodibenzofuran
30402-15-4	Total pentachlorodibenzofuran
55684-94-1	Total hexachlorodibenzofuran
38998-75-3	Total heptachlorodibenzofuran
8001-35-2	Toxaphene (polychlorinated camphenes)
126-73-8	Tributyl phosphate
120-82-1	1,2,4-Trichlorobenzene
71-55-6	1,1,1-Trichloroethane (methyl chloroform)
79-00-5	1,1,2-Trichloroethane (vinyl trichloride)
79-01-6	Trichloroethene (TCE, trichloroethylene)
75-69-4	Trichlorofluoromethane (Freon 11)
95-95-4	2,4,5-Trichlorophenol
88-06-2	2,4,6-Trichlorophenol
96-18-4	1,2,3-Trichloropropane
78-40-0	Triethyl phosphate
121-44-8	Triethylamine
112-49-2	Triethylene glycol dimethyl ether



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Table 1 Toxic Air Contaminant Priority List

CASRN ^a	Chemical Name
512-56-1	Trimethyl phosphate
78-30-8	Triorthocresyl phosphate
115-86-6	Triphenyl phosphate
101-02-0	Triphenyl phosphite
1582-09-8	Trifluralin
526-73-8	1,2,3-Trimethylbenzene
95-63-6	1,2,4-Trimethylbenzene
108-67-8	1,3,5-Trimethylbenzene
540-84-1	2,2,4-Trimethylpentane
62450-06-0	Tryptophan-P-1
62450-07-1	Tryptophan-P-2
51-79-6	Urethane (ethyl carbamate)
7440-62-2	Vanadium (fume or dust)
1314-62-1	Vanadium pentoxide
108-05-4	Vinyl acetate
593-60-2	Vinyl bromide
75-01-4	Vinyl chloride
100-40-3	4-Vinylcyclohexene
75-02-5	Vinyl fluoride
75-35-4	Vinylidene chloride
1330-20-7	Xylene (mixture), including <i>m</i> -xylene, <i>o</i> -xylene, <i>p</i> -xylene
108-38-3	<i>m</i> -Xylene
95-47-6	<i>o</i> -Xylene
106-42-3	<i>p</i> -Xylene
7440-66-6	Zinc and compounds ^b
1314-13-2	Zinc oxide

Footnotes for OAR 340-247-8010 Table 1:

† Chemical designated by DEQ ID number.

a) CASRN = Chemical Abstracts Service Registry Number, or DEQ ID if there is no CASRN.

b) Inorganic chemicals designated with "and compounds" should be reported as the sum of all forms of the chemical, expressed as the inorganic element.

c) TEQ = toxic equivalency, relative to 2,3,7,8-tetrachlorodibenzo-*p*-dioxin.

Stat. Auth.: ORS 468.020, 468.065, 468A.025, 468A.040, 468A.050, 468A.070, 468A.155

Stats. Implemented: ORS 468.065, 468A.010, 468A.015, 468A.025, 468A.035, 468A.040, 468A.050, 468A.070, and 468A.155

340-247-8030 Table 2
Toxicity Reference Values

 OAR 340-247-8010 Table 2 Toxicity Reference Values									
			Noncancer TBACT RAL ^p	Toxicity Reference Values (TRVs)					
				Chronic Cancer ^a		Chronic Noncancer ^b		Acute Noncancer ^c	
CASRN	Chemical	Notes		(µg/m ³)	Notes	(µg/m ³)	Notes	(µg/m ³)	Notes
75-07-0	Acetaldehyde		HI3	0.45	A	140	O	470	O
60-35-5	Acetamide			0.050	O				
67-64-1	Acetone		HI3			31,000	T	62,000	S
75-05-8	Acetonitrile		HI3			60	I		
107-02-8	Acrolein		HI5			0.35	A	6.9	T
79-06-1	Acrylamide		HI3	0.010	I	6.0	I		
79-10-7	Acrylic acid		HI3			1.0	I	6,000	O
107-13-1	Acrylonitrile		HI3	0.015	A	5.0	O	220	T
309-00-2	Aldrin			0.00020	I				
107-05-1	Allyl chloride		HI3	0.17	O	1.0	I		
7429-90-5	Aluminum and compounds	o	HI5			5.0	P		
7664-41-7	Ammonia		HI3			500	A	1,200	T



OAR 340-247-8010
Table 2
Toxicity Reference Values

			Noncancer TBACT RAL ^p	Toxicity Reference Values (TRVs)					
				Chronic Cancer ^a		Chronic Noncancer ^b		Acute Noncancer ^c	
CASRN	Chemical	Notes		(µg/m ³)	Notes	(µg/m ³)	Notes	(µg/m ³)	Notes
62-53-3	Aniline		HI5	0.63	O	1.0	I		
7440-36-0	Antimony and compounds	o	HI3			0.30	T	1.0	T
140-57-8	Aramite			0.14	I				
7440-38-2	Arsenic and compounds	o	HI3	0.00023	A	0.015	O	0.20	S
7784-42-1	Arsine		HI3			0.015	O	0.20	O
1332-21-4	Asbestos	k		4.3E-06	I				
103-33-3	Azobenzene			0.032	I				
71-43-2	Benzene	j	HI3	0.13	A	3.0	O	29	T
92-87-5	Benzidine (and its salts)			7.1E-06	O				
100-44-7	Benzyl chloride		HI3	0.020	O	1.0	P	240	O
7440-41-7	Beryllium and compounds	o	HI3	0.00042	A	0.0070	O	0.020	S
111-44-4	<i>Bis</i> (2-chloroethyl) ether (BCEE)		HI3	0.0014	O			120	Tint
542-88-1	<i>Bis</i> (chloromethyl) ether		HI5	7.7E-05	O			1.4	Tint



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Table 2
Toxicity Reference Values

			Noncancer TBACT RAL ^p	Toxicity Reference Values (TRVs)					
				Chronic Cancer ^a		Chronic Noncancer ^b		Acute Noncancer ^c	
CASRN	Chemical	Notes		(µg/m ³)	Notes	(µg/m ³)	Notes	(µg/m ³)	Notes
117-81-7	<i>Bis</i> (2-ethylhexyl) phthalate (DEHP)			0.42	O				
75-25-2	Bromoform			0.91	I				
74-83-9	Bromomethane (methyl bromide)		HI3			5.0	A	3,900	O
106-94-5	1-Bromopropane (<i>n</i> -propyl bromide)		HI3	0.48	A	33	T	1,700	T
106-99-0	1,3-Butadiene		HI3	0.033	A	2.0	O	660	O
78-93-3	2-Butanone (methyl ethyl ketone)		HI3			5,000	I	5,000	S
78-92-2	<i>sec</i> -Butyl alcohol		HI3			30,000	P		
7440-43-9	Cadmium and compounds	o	HI3	0.00056	A	0.010	T	0.030	S
105-60-2	Caprolactam		HI3			2.2	O	50	O
75-15-0	Carbon disulfide		HI3			800	A	6,200	O
56-23-5	Carbon tetrachloride		HI3	0.17	A	100	I	1,900	O



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Table 2
Toxicity Reference Values

			Noncancer TBACT RAL ^p	Toxicity Reference Values (TRVs)					
				Chronic Cancer ^a		Chronic Noncancer ^b		Acute Noncancer ^c	
CASRN	Chemical	Notes		(µg/m ³)	Notes	(µg/m ³)	Notes	(µg/m ³)	Notes
463-58-1	Carbonyl sulfide		HI3			10	O	660	O
57-74-9	Chlordane	j	HI3	0.010	I	0.020	T	0.20	Tint
108171-26-2	Chlorinated paraffins	n		0.040	O				
7782-50-5	Chlorine		HI3			0.15	A	170	T
10049-04-4	Chlorine dioxide		HI3			0.60	O	2.8	Tint
532-27-4	2-Chloroacetophenone		HI5			0.030	I		
108-90-7	Chlorobenzene		HI3			50	P		
75-68-3	1-Chloro-1,1-difluoroethane		HI3			50,000	I		
75-45-6	Chlorodifluoromethane (Freon 22)		HI3			50,000	I		
75-00-3	Chloroethane (ethyl chloride)		HI3			30,000	O	40,000	T
67-66-3	Chloroform		HI3		A2	300	A	490	T
74-87-3	Chloromethane (methyl chloride)		HI3			90	A	1,000	T



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Table 2
Toxicity Reference Values

			Noncancer TBACT RAL ^p	Toxicity Reference Values (TRVs)					
				Chronic Cancer ^a		Chronic Noncancer ^b		Acute Noncancer ^c	
CASRN	Chemical	Notes		(µg/m ³)	Notes	(µg/m ³)	Notes	(µg/m ³)	Notes
95-83-0	4-Chloro- <i>o</i> -phenylenediamine			0.22	O				
76-06-2	Chloropicrin		HI3			0.40	O	29	O
126-99-8	Chloroprene		HI3	0.0033	I	20	I		
95-69-2	<i>p</i> -Chloro- <i>o</i> -toluidine			0.013	O				
18540-29-9	Chromium VI, chromate and dichromate particulate	d	HI3	8.3E-05	A	0.20	O	0.30	S
7738-94-5	Chromium VI, chromic acid aerosol mist and chromium trioxide	d	HI3	8.3E-05	A	0.0050	T	0.0050	S
7440-48-4	Cobalt and compounds	o	HI3		A2	0.10	A		
148 [†]	Coke oven emissions			0.0016	I				
7440-50-8	Copper and compounds	o	HI3					100	O
120-71-8	<i>p</i> -Cresidine			0.023	O				
1319-77-3	Cresols (mixture), including <i>m</i> -cresol, <i>o</i> -cresol, <i>p</i> -cresol		HI3			600	O		



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Table 2
Toxicity Reference Values

			Noncancer TBACT RAL ^p	Toxicity Reference Values (TRVs)					
				Chronic Cancer ^a		Chronic Noncancer ^b		Acute Noncancer ^c	
CASRN	Chemical	Notes		(µg/m ³)	Notes	(µg/m ³)	Notes	(µg/m ³)	Notes
135-20-6	Cupferron			0.016	O				
74-90-8	Cyanide, hydrogen		HI3			0.80	A	340	O
110-82-7	Cyclohexane		HI3			6,000	I		
50-29-3	DDT	e		0.010	I				
615-05-4	2,4-Diaminoanisole			0.15	O				
95-80-7	2,4-Diaminotoluene (2,4-toluene diamine)			0.00091	O				
333-41-5	Diazinon		HI3					10	Tint
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		HI3	0.00017	P	0.20	I	1.9	Tint
106-46-7	<i>p</i> -Dichlorobenzene (1,4-dichlorobenzene)		HI3	0.091	A	60	T	12,000	T
91-94-1	3,3'-Dichlorobenzidine			0.0029	O				
75-34-3	1,1-Dichloroethane (ethylidene dichloride)			0.63	O				



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Table 2
Toxicity Reference Values

			Noncancer TBACT RAL ^p	Toxicity Reference Values (TRVs)					
				Chronic Cancer ^a		Chronic Noncancer ^b		Acute Noncancer ^c	
CASRN	Chemical	Notes		(µg/m ³)	Notes	(µg/m ³)	Notes	(µg/m ³)	Notes
156-60-5	<i>trans</i> -1,2-dichloroethene		HI3					790	T
75-09-2	Dichloromethane (methylene chloride)		HI3	100	A	600	I	2,100	T
78-87-5	1,2-Dichloropropane (propylene dichloride)		HI3			4.0	I	230	T
542-75-6	1,3-Dichloropropene		HI3	0.25	A	32	T	36	Tint
62-73-7	Dichlorvos (DDVP)		HI5			0.54	T	18	T
60-57-1	Dieldrin			0.00022	I				
200 [†]	Diesel particulate matter		HI3	0.10	A	5.0	O		
111-42-2	Diethanolamine		HI3			0.20	P		
112-34-5	Diethylene glycol monobutyl ether		HI3			0.10	P		
111-90-0	Diethylene glycol monoethyl ether		HI5			0.30	P		
75-37-6	1,1-Difluoroethane		HI5			40,000	I		



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Table 2
Toxicity Reference Values

			Noncancer TBACT RAL ^p	Toxicity Reference Values (TRVs)					
				Chronic Cancer ^a		Chronic Noncancer ^b		Acute Noncancer ^c	
CASRN	Chemical	Notes		(µg/m ³)	Notes	(µg/m ³)	Notes	(µg/m ³)	Notes
60-11-7	4-Dimethylaminoazobenzene			0.00077	O				
68-12-2	Dimethyl formamide		HI3			80	O		
57-14-7	1,1-Dimethylhydrazine		HI3					0.49	Tint
121-14-2	2,4-Dinitrotoluene			0.011	O				
123-91-1	1,4-Dioxane		HI3	0.20	I	30	I	7,200	T
122-66-7	1,2-Diphenylhydrazine (hydrazobenzene)			0.0045	I				
1937-37-7	Direct Black 38			7.1E-06	O				
2602-46-2	Direct Blue 6			7.1E-06	O				
16071-86-6	Direct Brown 95 (technical grade)			7.1E-06	O				
298-04-4	Disulfoton		HI3					6.0	T
106-89-8	Epichlorohydrin		HI3	0.043	O	3.0	O	1,300	O
106-88-7	1,2-Epoxybutane		HI5			20	O		



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Table 2
Toxicity Reference Values

			Noncancer TBACT RAL ^p	Toxicity Reference Values (TRVs)					
				Chronic Cancer ^a		Chronic Noncancer ^b		Acute Noncancer ^c	
CASRN	Chemical	Notes		(µg/m ³)	Notes	(µg/m ³)	Notes	(µg/m ³)	Notes
140-88-5	Ethyl acrylate		HI3			8.0	P		
100-41-4	Ethyl benzene		HI3	0.40	A	260	T	22,000	T
106-93-4	Ethylene dibromide (EDB, 1,2-dibromoethane)		HI3	0.0017	A	9.0	I		
107-06-2	Ethylene dichloride (EDC, 1,2-dichloroethane)		HI3	0.038	A	7.0	P		
107-21-1	Ethylene glycol		HI3			400	O	2,000	T
111-76-2	Ethylene glycol monobutyl ether		HI3			82	O	29,000	T
110-80-5	Ethylene glycol monoethyl ether		HI3			70	O	370	O
111-15-9	Ethylene glycol monoethyl ether acetate		HI3			60	P	140	O
109-86-4	Ethylene glycol monomethyl ether		HI3			60	O	93	O
110-49-6	Ethylene glycol monomethyl ether acetate		HI3			1.0	P		
75-21-8	Ethylene oxide		HI3	0.00033	A	30	O	160	Tint



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Table 2
Toxicity Reference Values

			Noncancer TBACT RAL ^p	Toxicity Reference Values (TRVs)					
				Chronic Cancer ^a		Chronic Noncancer ^b		Acute Noncancer ^c	
CASRN	Chemical	Notes		(µg/m ³)	Notes	(µg/m ³)	Notes	(µg/m ³)	Notes
96-45-7	Ethylene thiourea			0.077	O				
239 [†]	Fluorides		HI3			13	A	240	O
7782-41-4	Fluorine gas		HI3					16	T
50-00-0	Formaldehyde		HI3	0.17	A	9.0	O	49	T
111-30-8	Glutaraldehyde		HI5			0.080	O	4.1	T
76-44-8	Heptachlor			0.00077	I				
1024-57-3	Heptachlor epoxide			0.00038	I				
118-74-1	Hexachlorobenzene			0.0020	O				
87-68-3	Hexachlorobutadiene			0.045	I				
608-73-1	Hexachlorocyclohexanes (mixture) including but not limited to:			0.00091	O				
319-84-6	Hexachlorocyclohexane, <i>alpha</i> -			0.00091	O				
319-85-7	Hexachlorocyclohexane, <i>beta</i> -			0.00091	O				



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Table 2
Toxicity Reference Values

			Noncancer TBACT RAL ^p	Toxicity Reference Values (TRVs)					
				Chronic Cancer ^a		Chronic Noncancer ^b		Acute Noncancer ^c	
CASRN	Chemical	Notes		(µg/m ³)	Notes	(µg/m ³)	Notes	(µg/m ³)	Notes
58-89-9	Hexachlorocyclohexane, <i>gamma</i> - (Lindane)			0.0032	O				
77-47-4	Hexachlorocyclopentadiene		HI3			0.20	I	110	Tint
67-72-1	Hexachloroethane		HI3			30	I	58,000	T
822-06-0	Hexamethylene-1,6-diisocyanate		HI5			0.069	T	0.21	Tint
110-54-3	Hexane		HI3			700	A		
302-01-2	Hydrazine		HI3	0.00020	O	0.030	P	5.2	Tint
7647-01-0	Hydrochloric acid		HI3			20	A	2,100	O
7664-39-3	Hydrogen fluoride		HI3			13	A	16	T
7783-06-4	Hydrogen sulfide		HI3			2.0	A	98	S
78-59-1	Isophorone		HI3			2,000	O		
67-63-0	Isopropyl alcohol		HI3			200	P	3,200	O
98-82-8	Isopropylbenzene (c umene)		HI3			400	I		



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Table 2
Toxicity Reference Values

			Noncancer TBACT RAL ^p	Toxicity Reference Values (TRVs)					
				Chronic Cancer ^a		Chronic Noncancer ^b		Acute Noncancer ^c	
CASRN	Chemical	Notes		(µg/m ³)	Notes	(µg/m ³)	Notes	(µg/m ³)	Notes
7439-92-1	Lead and compounds	o	HI3		A2	0.15	A	0.15	S
108-31-6	Maleic anhydride		HI5			0.70	O		
7439-96-5	Manganese and compounds	o	HI3			0.090	A	0.30	S
7439-97-6	Mercury and compounds	o	HI3			0.30	A	0.60	O
67-56-1	Methanol		HI3			4,000	A	28,000	O
101-14-4	4,4'-Methylene bis(2-chloroaniline) (MOCA)			0.0023	O				
101-77-9	4,4'-Methylenedianiline (and its dichloride)		HI5	0.0022	O	20	O		
101-68-8	Methylene diphenyl diisocyanate (MDI)		HI3			0.080	O	12	O
108-10-1	Methyl isobutyl ketone (MIBK, hexone)		HI3			3,000	I		
624-83-9	Methyl isocyanate		HI3			1.0	O		
80-62-6	Methyl methacrylate		HI5			700	I		



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Table 2
Toxicity Reference Values

			Noncancer TBACT RAL ^p	Toxicity Reference Values (TRVs)					
				Chronic Cancer ^a		Chronic Noncancer ^b		Acute Noncancer ^c	
CASRN	Chemical	Notes		(µg/m ³)	Notes	(µg/m ³)	Notes	(µg/m ³)	Notes
1634-04-4	Methyl <i>tert</i> -butyl ether		HI3	3.8	O	8,000	O	8,000	O
90-94-8	Michler's ketone			0.0040	O				
91-20-3	Naphthalene		HI3	0.029	A	3.7	T	200	S
365 [†]	Nickel compounds, insoluble	f	HI3	0.0038	A	0.014	O	0.20	O
368 [†]	Nickel compounds, soluble	f	HI3		A2	0.014	A	0.20	O
7697-37-2	Nitric acid		HI5					86	O
98-95-3	Nitrobenzene		HI3	0.025	I	9.0	I		
79-46-9	2-Nitropropane		HI3			20	I		
924-16-3	N-Nitrosodibutylamine			0.00032	O				
55-18-5	N-Nitrosodiethylamine			1.0E-04	O				
62-75-9	N-Nitrosodimethylamine			0.00022	O				
86-30-6	N-Nitrosodiphenylamine			0.38	O				
156-10-5	<i>p</i> -Nitrosodiphenylamine			0.16	O				



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Table 2
Toxicity Reference Values

			Noncancer TBACT RAL ^p	Toxicity Reference Values (TRVs)					
				Chronic Cancer ^a		Chronic Noncancer ^b		Acute Noncancer ^c	
CASRN	Chemical	Notes		(µg/m ³)	Notes	(µg/m ³)	Notes	(µg/m ³)	Notes
621-64-7	N-Nitrosodipropylamine			0.00050	O				
10595-95-6	N-Nitrosomethylethylamine			0.00016	O				
59-89-2	N-Nitrosomorpholine			0.00053	O				
100-75-4	N-Nitrosopiperidine			0.00037	O				
930-55-2	N-Nitrosopyrrolidine			0.0017	O				
8014-95-7	Oleum (fuming sulfuric acid)		HI3					120	O
56-38-2	Parathion		HI3					0.020	Tint
87-86-5	Pentachlorophenol			0.20	O				
108-95-2	Phenol		HI3			200	O	5,800	O
75-44-5	Phosgene		HI3			0.30	A	4.0	O
7803-51-2	Phosphine		HI3			0.80	A		
7664-38-2	Phosphoric acid		HI3			10	A		
12185-10-3	Phosphorus, white		HI3			9.0	A	20	T



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Table 2
Toxicity Reference Values

			Noncancer TBACT RAL ^p	Toxicity Reference Values (TRVs)					
				Chronic Cancer ^a		Chronic Noncancer ^b		Acute Noncancer ^c	
CASRN	Chemical	Notes		(µg/m ³)	Notes	(µg/m ³)	Notes	(µg/m ³)	Notes
85-44-9	Phthalic anhydride		HI3			20	O		
447 [†]	Polybrominated diphenyl ethers (PBDEs)	g	HI3					6.0	Tint
1336-36-3	Polychlorinated biphenyls (PCBs)			0.010	A				
645 [†]	Polychlorinated biphenyls (PCBs) TEQ	h	HI3	2.6E-08	A1	4.E-05	O		
32598-13-3	PCB 77 [3,3',4,4'-tetrachlorobiphenyl]	h	HI3	0.00026	A1	0.40	O		
70362-50-4	PCB 81 [3,4,4',5-tetrachlorobiphenyl]	h	HI3	8.8E-05	A1	0.13	O		
32598-14-4	PCB 105 [2,3,3',4,4'-pentachlorobiphenyl]	h	HI3	0.00088	A1	1.3	O		
74472-37-0	PCB 114 [2,3,4,4',5-pentachlorobiphenyl]	h	HI3	0.00088	A1	1.3	O		
31508-00-6	PCB 118 [2,3',4,4',5-pentachlorobiphenyl]	h	HI3	0.00088	A1	1.3	O		



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Table 2
Toxicity Reference Values

			Noncancer TBACT RAL ^p	Toxicity Reference Values (TRVs)					
				Chronic Cancer ^a		Chronic Noncancer ^b		Acute Noncancer ^c	
CASRN	Chemical	Notes		(µg/m ³)	Notes	(µg/m ³)	Notes	(µg/m ³)	Notes
65510-44-3	PCB 123 [2,3',4,4',5'-pentachlorobiphenyl]	h	HI3	0.00088	A1	1.3	O		
57465-28-8	PCB 126 [3,3',4,4',5'-pentachlorobiphenyl]	h	HI3	2.6E-07	A1	0.00040	O		
38380-08-4	PCB 156 [2,3,3',4,4',5'-hexachlorobiphenyl]	h	HI3	0.00088	A1	1.3	O		
69782-90-7	PCB 157 [2,3,3',4,4',5'-hexachlorobiphenyl]	h	HI3	0.00088	A1	1.3	O		
52663-72-6	PCB 167 [2,3',4,4',5,5'-hexachlorobiphenyl]	h	HI3	0.00088	A1	1.3	O		
32774-16-6	PCB 169 [3,3',4,4',5,5'-hexachlorobiphenyl]	h	HI3	8.8E-07	A1	0.0013	O		
39635-31-9	PCB 189 [2,3,3',4,4',5,5'-heptachlorobiphenyl]	h	HI3	0.00088	A1	1.3	O		
646 [†]	Polychlorinated dibenzo- <i>p</i> -dioxins (PCDDs) & dibenzofurans (PCDFs) TEQ	h	HI3	2.6E-08	A1	4.0E-05	O		



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Table 2
Toxicity Reference Values

			Noncancer TBACT RAL ^p	Toxicity Reference Values (TRVs)					
				Chronic Cancer ^a		Chronic Noncancer ^b		Acute Noncancer ^c	
CASRN	Chemical	Notes		(µg/m ³)	Notes	(µg/m ³)	Notes	(µg/m ³)	Notes
1746-01-6	2,3,7,8-Tetrachlorodibenzo- <i>p</i> -dioxin (TCDD)		HI3	2.6E-08	A	4.0E-05	O		
40321-76-4	1,2,3,7,8-Pentachlorodibenzo- <i>p</i> -dioxin (PeCDD)	h	HI3	2.6E-08	A1	4.0E-05	O		
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo- <i>p</i> -dioxin (HxCDD)	h	HI3	2.6E-07	A1	0.00040	O		
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo- <i>p</i> -dioxin (HxCDD)	h	HI3	2.6E-07	A1	0.00040	O		
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo- <i>p</i> -dioxin (HxCDD)	h	HI3	2.6E-07	A1	0.00040	O		
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo- <i>p</i> -dioxin (HpCDD)	h	HI3	2.6E-06	A1	0.0040	O		
3268-87-9	Octachlorodibenzo- <i>p</i> -dioxin (OCDD)	h	HI3	8.8E-05	A1	0.13	O		
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran (TCDF)	h	HI3	2.6E-07	A1	0.00040	O		



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Table 2
Toxicity Reference Values

			Noncancer TBACT RAL ^p	Toxicity Reference Values (TRVs)					
				Chronic Cancer ^a		Chronic Noncancer ^b		Acute Noncancer ^c	
CASRN	Chemical	Notes		(µg/m ³)	Notes	(µg/m ³)	Notes	(µg/m ³)	Notes
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	h	HI3	8.8E-07	A1	0.0013	O		
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	h	HI3	8.8E-08	A1	0.00013	O		
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	h	HI3	2.6E-07	A1	0.00040	O		
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	h	HI3	2.6E-07	A1	0.00040	O		
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	h	HI3	2.6E-07	A1	0.00040	O		
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	h	HI3	2.6E-07	A1	0.00040	O		
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	h	HI3	2.6E-06	A1	0.0040	O		



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Table 2
Toxicity Reference Values

			Noncancer TBACT RAL ^p	Toxicity Reference Values (TRVs)					
				Chronic Cancer ^a		Chronic Noncancer ^b		Acute Noncancer ^c	
CASRN	Chemical	Notes		(µg/m ³)	Notes	(µg/m ³)	Notes	(µg/m ³)	Notes
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	h	HI3	2.6E-06	A1	0.0040	O		
39001-02-0	Octachlorodibenzofuran (OCDF)	h	HI3	8.8E-05	A1	0.13	O		
401 [†]	Polycyclic aromatic hydrocarbons (PAHs)	q		0.0017	A				
191-26-4	Anthanthrene	i		0.0042	A1				
56-55-3	Benz[a]anthracene	i		0.0083	A1				
50-32-8	Benzo[a]pyrene	m	HI3	0.0017	A	0.0020	I	0.0020	I
205-99-2	Benzo[b]fluoranthene	i		0.0021	A1				
205-12-9	Benzo[c]fluorene	i		8.3E-05	A1				
191-24-2	Benzo[g,h,i]perylene	i		0.19	A1				
205-82-3	Benzo[j]fluoranthene	i		0.0056	A1				
207-08-9	Benzo[k]fluoranthene	i		0.056	A1				



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Table 2
Toxicity Reference Values

			Noncancer TBACT RAL ^p	Toxicity Reference Values (TRVs)					
				Chronic Cancer ^a		Chronic Noncancer ^b		Acute Noncancer ^c	
CASRN	Chemical	Notes		(µg/m ³)	Notes	(µg/m ³)	Notes	(µg/m ³)	Notes
218-01-9	Chrysene	i		0.017	A1				
27208-37-3	Cyclopenta[c,d]pyrene	i		0.0042	A1				
53-70-3	Dibenz[a,h]anthracene	i		0.00017	A1				
192-65-4	Dibenzo[a,e]pyrene	i		0.0042	A1				
189-64-0	Dibenzo[a,h]pyrene	i		0.0019	A1				
189-55-9	Dibenzo[a,i]pyrene	i		0.0028	A1				
191-30-0	Dibenzo[a,l]pyrene	i		5.6E-05	A1				
206-44-0	Fluoranthene	i		0.021	A1				
193-39-5	Indeno[1,2,3-cd]pyrene	i		0.024	A1				
3697-24-3	5-Methylchrysene	i		0.0017	A1				
7496-02-8	6-Nitrochrysene	i		0.00017	A1				
7758-01-2	Potassium bromate			0.0071	O				
1120-71-4	1,3-Propane sultone			0.0014	O				



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Table 2
Toxicity Reference Values

			Noncancer TBACT RAL ^p	Toxicity Reference Values (TRVs)					
				Chronic Cancer ^a		Chronic Noncancer ^b		Acute Noncancer ^c	
CASRN	Chemical	Notes		(µg/m ³)	Notes	(µg/m ³)	Notes	(µg/m ³)	Notes
123-38-6	Propionaldehyde		HI5			8.0	I		
115-07-1	Propylene		HI5			3,000	O		
6423-43-4	Propylene glycol dinitrate		HI5			0.27	T	20	T
107-98-2	Propylene glycol monomethyl ether		HI3			7,000	O		
75-56-9	Propylene oxide		HI3	0.27	O	30	O	3,100	O
572 [†]	Refractory ceramic fibers	k	HI5			0.030	T		
7783-07-5	Selenide, hydrogen		HI3					5.0	O
7782-49-2	Selenium and compounds	j, o	HI3				A3	2.0	S
7631-86-9	Silica, crystalline (respirable)		HI5			3.0	O		
1310-73-2	Sodium hydroxide		HI3					8.0	O
100-42-5	Styrene		HI3			1,000	A	21,000	S
7664-93-9	Sulfuric acid		HI5			1.0	O	120	O
505-60-2	Sulfur mustard		HI3					0.70	T



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Table 2
Toxicity Reference Values

			Noncancer TBACT RAL ^p	Toxicity Reference Values (TRVs)					
				Chronic Cancer ^a		Chronic Noncancer ^b		Acute Noncancer ^c	
CASRN	Chemical	Notes		(µg/m ³)	Notes	(µg/m ³)	Notes	(µg/m ³)	Notes
7446-11-9	Sulfur trioxide		HI5			1.0	O	120	O
630-20-6	1,1,1,2-Tetrachloroethane			0.14	I				
79-34-5	1,1,2,2-Tetrachloroethane			0.017	O				
127-18-4	Tetrachloroethene (perchloroethylene)		HI3	3.8	A	41	T	41	T
811-97-2	1,1,1,2-Tetrafluoroethane		HI3			80,000	I		
62-55-5	Thioacetamide			0.00059	O				
7550-45-0	Titanium tetrachloride		HI3			0.10	T	10	Tint
108-88-3	Toluene		HI3			5,000	A	7,500	T
26471-62-5	Toluene diisocyanates (2,4- and 2,6-)		HI3	0.091	O	0.021	A	0.071	T
8001-35-2	Toxaphene (polychlorinated camphenes)			0.0031	I				
71-55-6	1,1,1-Trichloroethane (methyl chloroform)		HI3			5,000	A	11,000	T



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Table 2
Toxicity Reference Values

			Noncancer TBACT RAL ^p	Toxicity Reference Values (TRVs)					
				Chronic Cancer ^a		Chronic Noncancer ^b		Acute Noncancer ^c	
CASRN	Chemical	Notes		(µg/m ³)	Notes	(µg/m ³)	Notes	(µg/m ³)	Notes
79-00-5	1,1,2-Trichloroethane (vinyl trichloride)			0.063	O				
79-01-6	Trichloroethene (TCE, trichloroethylene)		HI3	0.24	A	2.1	T	2.1	Tint
88-06-2	2,4,6-Trichlorophenol			0.050	O				
96-18-4	1,2,3-Trichloropropane		HI5			0.30	I	1.8	T
121-44-8	Triethylamine		HI3			200	O	2,800	O
526-73-8	1,2,3-Trimethylbenzene		HI3			60	I		
95-63-6	1,2,4-Trimethylbenzene		HI3			60	I		
108-67-8	1,3,5-Trimethylbenzene		HI3			60	I		
51-79-6	Urethane (ethyl carbamate)			0.0034	O				
7440-62-2	Vanadium (fume or dust)		HI3			0.10	T	0.80	T
1314-62-1	Vanadium pentoxide		HI3	0.00012	P	0.0070	P	30	O
108-05-4	Vinyl acetate	j	HI3			200	O	200	I



OAR 340-247-8010 **Table 2** **Toxicity Reference Values**

			Noncancer TBACT RAL ^p	Toxicity Reference Values (TRVs)					
				Chronic Cancer ^a		Chronic Noncancer ^b		Acute Noncancer ^c	
CASRN	Chemical	Notes		(µg/m ³)	Notes	(µg/m ³)	Notes	(µg/m ³)	Notes
593-60-2	Vinyl bromide		HI5			3.0	I		
75-01-4	Vinyl chloride		HI3	0.11	I	100	I	1,300	T
75-35-4	Vinylidene chloride	j	HI3			200	I	200	I
1330-20-7	Xylene (mixture), including <i>m</i> -xylene, <i>o</i> -xylene, <i>p</i> -xylene		HI3			220	A	8,700	T

Footnotes for OAR 340-247-8010 Table 2:

- † Chemical designated by DEQ ID number.
- a) TRV based on a 1 in 1 million excess cancer risk.
 $TRV = 1 \times 10^{-6} / IUR$, where IUR = chemical-specific inhalation unit risk value $[(\mu g/m^3)^{-1}]$.
- b) TRV based on chronic noncancer value from authoritative sources ($\mu g/m^3$).
- c) TRV based on acute or subchronic noncancer value from authoritative sources ($\mu g/m^3$).
- d) The TRVs presented for chromium are applicable to hexavalent chromium.
- e) DDT TRVs apply to the sum of DDT, DDE, and DDD compounds.
- f) As recommended by the ATSAC in 2018, the two categories of nickel compounds contain the following specific nickel compounds:
Soluble nickel compounds are considered to be emitted mainly in aerosol form, to be less potent carcinogens than insoluble nickel compounds, and include nickel acetate, nickel chloride, nickel carbonate, nickel hydroxide, nickelocene, nickel sulfate, nickel sulfate hexahydrate, nickel nitrate hexahydrate, nickel carbonate hydroxide.
Insoluble nickel compounds are considered to be emitted mainly in particulate form, to be more potent carcinogens than soluble nickel compounds, and to include nickel subsulfide, nickel oxide, nickel sulfide, nickel metal.
- g) TRVs apply to octabrominated diphenyl ethers (CASRN 32536-52-0) and pentabrominated diphenyl ethers (CASRN 32534-81-9), including BDE-99.
- h) TRV for chronic cancer calculated by applying toxicity equivalency factor to 2,3,7,8-TCDD TRV.
- i) TRV for chronic cancer calculated by applying toxicity equivalency factor to benzo[a]pyrene TRV.

- j) If the short-term toxicity reference value is lower than the chronic noncancer toxicity reference value, the chronic noncancer toxicity reference value was used for the short-term toxicity reference value because chronic noncancer toxicity reference values are generally more reliable.
- k) TRVs for asbestos and refractory ceramic fibers are in units of fibers/cm³.
- m) Because benzo[a]pyrene can cause developmental effects, the chronic noncancer TRV is also used as the acute noncancer TRV.
- n) Chlorinated paraffins of average chain length of C12, approximately 60% chlorine by weight.
- o) An inorganic chemical designated with "and compounds" indicates that the TRV applies to the sum of all forms of the chemical, expressed as the inorganic element.
- p) Noncancer TBACT RAL = noncancer Toxics Best Available Control Technology Risk Action Level, OAR 340-245-8010, Table 1.
- q) Cancer TRV for PAHs was developed using benzo[a]pyrene TRV.

Legend:

A = ATSAC, DEQ Air Toxics Science Advisory Committee, 2018.

A1 = ATSAC, 2018. TRV for cancer calculated by applying toxic equivalency factor.

A2 = Because the ATSAC decided it was inappropriate to develop an ABC based on carcinogenic effects, DEQ did not obtain a cancer TRV from the other authoritative sources.

A3 = Because the ATSAC decided it was inappropriate to develop an ABC based on noncarcinogenic effects, DEQ did not obtain a TRV from the other authoritative sources.

CASRN = Chemical Abstracts Service Registry Number, or DEQ ID if there is no CASRN.

I = IRIS, EPA integrated risk information system

O = OEHHA, California Environmental Protection Agency, Office of Environmental Health Hazard Assessment

P = PPRTV, EPA preliminary peer reviewed toxicity value

S = SGC, DEQ short-term guideline concentration

T = ATSDR, U.S. Agency for Toxic Substances and Disease Registry

TEQ = toxic equivalency, relative to 2,3,7,8-tetrachlorodibenzo-*p*-dioxin.

Tint = ATSDR, intermediate minimal risk level

TRV = toxicity reference value

340-245-8010 Table 2
Risk-Based Concentrations



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Table 2
Risk-Based Concentrations

			Non cancer TBACT RAL ^m	Residential Chronic		Non-Residential Chronic				Acute
				Cancer RBC ^a	Non-cancer RBC ^a	Child Cancer RBC ^a	Child Non- cancer RBC ^a	Worker Cancer RBC ^a	Worker Non- cancer RBC ^a	Non-cancer RBC ^a
CASRN ^b	Chemical	Notes		(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)
75-07-0	Acetaldehyde		HI3	0.45	140	12	620	5.5	620	470
60-35-5	Acetamide			0.050		1.3		0.60		
67-64-1	Acetone		HI3		31,000		140,000		140,000	62,000
75-05-8	Acetonitrile		HI3		60		260		260	
107-02-8	Acrolein		HI5		0.35		1.5		1.5	6.9
79-06-1	Acrylamide	g	HI3	0.0059	6.0	0.062	26	0.12	26	
79-10-7	Acrylic acid		HI3		1.0		4.4		4.4	6,000
107-13-1	Acrylonitrile		HI3	0.015	5.0	0.38	22	0.18	22	220
309-00-2	Aldrin			0.00020		0.0053		0.0024		
107-05-1	Allyl chloride		HI3	0.17	1.0	4.3	4.4	2.0	4.4	
7429-90-5	Aluminum and compounds	l	HI5		5.0		22		22	
7664-41-7	Ammonia		HI3		500		2,200		2,200	1,200
62-53-3	Aniline		HI5	0.63	1.0	16	4.4	7.5	4.4	
7440-36-0	Antimony and compounds	l	HI3		0.30		1.3		1.3	1.0
140-57-8	Aramite			0.14		3.7		1.7		
7440-38-2	Arsenic and compounds	l	HI3	2.4E-05	0.00017	0.0013	0.0024	0.00062	0.0024	0.20
7784-42-1	Arsine		HI3		0.015		0.066		0.066	0.20
1332-21-4	Asbestos	I		4.3E-06		0.00011		5.2E-05		



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Table 2

Risk-Based Concentrations

			Non cancer TBACT RAL ^m	Residential Chronic		Non-Residential Chronic				Acute
				Cancer RBC ^a	Non-cancer RBC ^a	Child Cancer RBC ^a	Child Non- cancer RBC ^a	Worker Cancer RBC ^a	Worker Non- cancer RBC ^a	Non-cancer RBC ^a
CASRN ^b	Chemical	Notes		(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)
103-33-3	Azobenzene			0.032		0.84		0.39		
71-43-2	Benzene		HI3	0.13	3.0	3.3	13	1.5	13	29
92-87-5	Benzidine (and its salts)	g		4.2E-06		4.4E-05		8.6E-05		
100-44-7	Benzyl chloride		HI3	0.020	1.0	0.53	4.4	0.24	4.4	240
7440-41-7	Beryllium and compounds	l	HI3	0.00042	0.0070	0.011	0.031	0.0050	0.031	0.020
111-44-4	<i>Bis</i> (2-chloroethyl) ether (BCEE)		HI3	0.0014		0.037		0.017		120
542-88-1	<i>Bis</i> (chloromethyl) ether		HI5	7.7E-05		0.0020		0.00092		1.4
117-81-7	<i>Bis</i> (2-ethylhexyl) phthalate (DEHP)	c		0.080		11		5.0		
75-25-2	Bromoform			0.91		24		11		
74-83-9	Bromomethane (methyl bromide)		HI3		5.0		22		22	3,900
106-94-5	1-Bromopropane (n-propyl bromide)		HI3	0.48	33	12	150	5.7	150	1,700
106-99-0	1,3-Butadiene		HI3	0.033	2.0	0.86	8.8	0.40	8.8	660
78-93-3	2-Butanone (methyl ethyl ketone)		HI3		5,000		22,000		22,000	5,000
78-92-2	sec-Butyl alcohol		HI3		30,000		130,000		130,000	
7440-43-9	Cadmium and compounds	c, l	HI3	0.00056	0.0050	0.014	0.037	0.0067	0.037	0.030
105-60-2	Caprolactam		HI3		2.2		9.7		9.7	50
75-15-0	Carbon disulfide		HI3		800		3,500		3,500	6,200



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Table 2

Risk-Based Concentrations

			Non cancer TBACT RAL ^m	Residential Chronic		Non-Residential Chronic				Acute
				Cancer RBC ^a	Non-cancer RBC ^a	Child Cancer RBC ^a	Child Non- cancer RBC ^a	Worker Cancer RBC ^a	Worker Non- cancer RBC ^a	Non-cancer RBC ^a
CASRN ^b	Chemical	Notes		(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)
56-23-5	Carbon tetrachloride		HI3	0.17	100	4.3	440	2.0	440	1,900
463-58-1	Carbonyl sulfide		HI3		10		44		44	660
57-74-9	Chlordane		HI3	0.010	0.020	0.26	0.088	0.12	0.088	0.20
108171-26-2	Chlorinated paraffins	j		0.040		1.0		0.48		
7782-50-5	Chlorine		HI3		0.15		0.66		0.66	170
10049-04-4	Chlorine dioxide		HI3		0.60		2.6		2.6	2.8
532-27-4	2-Chloroacetophenone		HI5		0.030		0.13		0.13	
108-90-7	Chlorobenzene		HI3		50		220		220	
75-68-3	1-Chloro-1,1-difluoroethane		HI3		50,000		220,000		220,000	
75-45-6	Chlorodifluoromethane (Freon 22)		HI3		50,000		220,000		220,000	
75-00-3	Chloroethane (ethyl chloride)		HI3		30,000		130,000		130,000	40,000
67-66-3	Chloroform		HI3		300		1,300		1,300	490
74-87-3	Chloromethane (methyl chloride)		HI3		90		400		400	1,000
95-83-0	4-Chloro- <i>o</i> -phenylenediamine			0.22		5.7		2.6		
76-06-2	Chloropicrin		HI3		0.40		1.8		1.8	29
126-99-8	Chloroprene		HI3	0.0033	20	0.087	88	0.040	88	
95-69-2	<i>p</i> -Chloro- <i>o</i> -toluidine			0.013		0.34		0.16		



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Table 2

Risk-Based Concentrations

			Non cancer TBACT RAL ^m	Residential Chronic		Non-Residential Chronic				Acute
				Cancer RBC ^a	Non-cancer RBC ^a	Child Cancer RBC ^a	Child Non- cancer RBC ^a	Worker Cancer RBC ^a	Worker Non- cancer RBC ^a	Non-cancer RBC ^a
CASRN ^b	Chemical	Notes		(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)
18540-29-9	Chromium VI, chromate and dichromate particulate	c, d	HI3	3.1E-05	0.083	0.00052	0.88	0.0010	0.88	0.30
7738-94-5	Chromium VI, chromic acid aerosol mist and chromium trioxide	c, d	HI3	3.1E-05	0.0021	0.00052	0.022	0.0010	0.022	0.0050
7440-48-4	Cobalt and compounds	l	HI3		0.10		0.44		0.44	
148 [†]	Coke oven emissions	g		0.00095		0.0100		0.019		
7440-50-8	Copper and compounds	l	HI3							100
120-71-8	<i>p</i> -Cresidine			0.023		0.60		0.28		
1319-77-3	Cresols (mixture), including <i>m</i> -cresol, <i>o</i> -cresol, <i>p</i> -cresol		HI3		600		2,600		2,600	
135-20-6	Cupferron			0.016		0.41		0.19		
74-90-8	Cyanide, hydrogen		HI3		0.80		3.5		3.5	340
110-82-7	Cyclohexane		HI3		6,000		26,000		26,000	
50-29-3	DDT	e		0.010		0.27		0.12		
615-05-4	2,4-Diaminoanisole			0.15		3.9		1.8		
95-80-7	2,4-Diaminotoluene (2,4-toluene diamine)			0.00091		0.024		0.011		
333-41-5	Diazinon		HI3							10
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	g	HI3	9.8E-05	0.20	0.0010	0.88	0.0020	0.88	1.9
106-46-7	<i>p</i> -Dichlorobenzene (1,4-dichlorobenzene)		HI3	0.091	60	2.4	260	1.1	260	12,000



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Table 2
Risk-Based Concentrations

			Non cancer TBACT RAL ^m	Residential Chronic		Non-Residential Chronic				Acute
				Cancer RBC ^a	Non-cancer RBC ^a	Child Cancer RBC ^a	Child Non- cancer RBC ^a	Worker Cancer RBC ^a	Worker Non- cancer RBC ^a	Non-cancer RBC ^a
CASRN ^b	Chemical	Notes		(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)
91-94-1	3,3'-Dichlorobenzidine			0.0029		0.076		0.035		
75-34-3	1,1-Dichloroethane (ethylidene dichloride)			0.63		16		7.5		
156-60-5	<i>trans</i> -1,2-dichloroethene		HI3							790
75-09-2	Dichloromethane (methylene chloride)		HI3	59	600	620	2,600	1,200	2,600	2,100
78-87-5	1,2-Dichloropropane (propylene dichloride)		HI3		4.0		18		18	230
542-75-6	1,3-Dichloropropene		HI3	0.25	32	6.5	140	3.0	140	36
62-73-7	Dichlorvos (DDVP)		HI5		0.54		2.4		2.4	18
60-57-1	Dieldrin			0.00022		0.0057		0.0026		
200 [†]	Diesel particulate matter		HI3	0.10	5.0	2.6	22	1.2	22	
111-42-2	Diethanolamine		HI3		0.20		0.88		0.88	
112-34-5	Diethylene glycol monobutyl ether		HI3		0.10		0.44		0.44	
111-90-0	Diethylene glycol monoethyl ether		HI5		0.30		1.3		1.3	
75-37-6	1,1-Difluoroethane		HI5		40,000		180,000		180,000	
60-11-7	4-Dimethylaminoazobenze ne			0.00077		0.020		0.0092		
68-12-2	Dimethyl formamide		HI3		80		350		350	
57-14-7	1,1-Dimethylhydrazine		HI3							0.49
121-14-2	2,4-Dinitrotoluene			0.011		0.29		0.13		



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Table 2
Risk-Based Concentrations

			Non cancer TBACT RAL ^m	Residential Chronic		Non-Residential Chronic				Acute
				Cancer RBC ^a	Non-cancer RBC ^a	Child Cancer RBC ^a	Child Non- cancer RBC ^a	Worker Cancer RBC ^a	Worker Non- cancer RBC ^a	Non-cancer RBC ^a
CASRN ^b	Chemical	Notes		(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)
123-91-1	1,4-Dioxane		HI3	0.20	30	5.2	130	2.4	130	7,200
122-66-7	1,2-Diphenylhydrazine (hydrazobenzene)			0.0045		0.12		0.055		
1937-37-7	Direct Black 38			7.1E-06		0.00019		8.6E-05		
2602-46-2	Direct Blue 6			7.1E-06		0.00019		8.6E-05		
16071-86-6	Direct Brown 95 (technical grade)			7.1E-06		0.00019		8.6E-05		
298-04-4	Disulfoton		HI3							6.0
106-89-8	Epichlorohydrin		HI3	0.043	3.0	1.1	13	0.52	13	1,300
106-88-7	1,2-Epoxybutane		HI5		20		88		88	
140-88-5	Ethyl acrylate		HI3		8.0		35		35	
100-41-4	Ethyl benzene		HI3	0.40	260	10	1,100	4.8	1,100	22,000
106-93-4	Ethylene dibromide (EDB, 1,2- dibromoethane)		HI3	0.0017	9.0	0.043	40	0.020	40	
107-06-2	Ethylene dichloride (EDC, 1,2- dichloroethane)		HI3	0.038	7.0	1.0	31	0.46	31	
107-21-1	Ethylene glycol		HI3		400		1,800		1,800	2,000
111-76-2	Ethylene glycol monobutyl ether		HI3		82		360		360	29,000
110-80-5	Ethylene glycol monoethyl ether		HI3		70		310		310	370
111-15-9	Ethylene glycol monoethyl ether acetate		HI3		60		260		260	140



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Table 2
Risk-Based Concentrations

			Non cancer TBACT RAL ^m	Residential Chronic		Non-Residential Chronic				Acute
				Cancer RBC ^a	Non-cancer RBC ^a	Child Cancer RBC ^a	Child Non- cancer RBC ^a	Worker Cancer RBC ^a	Worker Non- cancer RBC ^a	Non-cancer RBC ^a
CASRN ^b	Chemical	Notes		(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)
109-86-4	Ethylene glycol monomethyl ether		HI3		60		260		260	93
110-49-6	Ethylene glycol monomethyl ether acetate		HI3		1.0		4.4		4.4	
75-21-8	Ethylene oxide	g	HI3	0.00020	30	0.0021	130	0.0040	130	160
96-45-7	Ethylene thiourea			0.077		2.0		0.92		
239 [†]	Fluorides	c	HI3		2.3		20		20	240
7782-41-4	Fluorine gas		HI3							16
50-00-0	Formaldehyde		HI3	0.17	9.0	4.3	40	2.0	40	49
111-30-8	Glutaraldehyde		HI5		0.080		0.35		0.35	4.1
76-44-8	Heptachlor			0.00077		0.020		0.0092		
1024-57-3	Heptachlor epoxide			0.00038		0.010		0.0046		
118-74-1	Hexachlorobenzene			0.0020		0.051		0.024		
87-68-3	Hexachlorobutadiene			0.045		1.2		0.55		
608-73-1	Hexachlorocyclohexanes (mixture) including but not limited to:	c		0.00017		0.018		0.0084		
319-84-6	Hexachlorocyclohexane, <i>alpha</i> -	c		0.00017		0.018		0.0084		
319-85-7	Hexachlorocyclohexane, <i>beta</i> -	c		0.00017		0.018		0.0084		
58-89-9	Hexachlorocyclohexane, <i>gamma</i> - (Lindane)	c		0.00060		0.065		0.030		



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Risk-Based Concentrations

			Non cancer TBACT RAL ^m	Residential Chronic		Non-Residential Chronic				Acute
				Cancer RBC ^a	Non-cancer RBC ^a	Child Cancer RBC ^a	Child Non- cancer RBC ^a	Worker Cancer RBC ^a	Worker Non- cancer RBC ^a	Non-cancer RBC ^a
CASRN ^b	Chemical	Notes		(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)
77-47-4	Hexachlorocyclopentadiene		HI3		0.20		0.88		0.88	110
67-72-1	Hexachloroethane		HI3		30		130		130	58,000
822-06-0	Hexamethylene-1,6-diisocyanate		HI5		0.069		0.30		0.30	0.21
110-54-3	Hexane		HI3		700		3,100		3,100	
302-01-2	Hydrazine		HI3	0.00020	0.030	0.0053	0.13	0.0024	0.13	5.2
7647-01-0	Hydrochloric acid		HI3		20		88		88	2,100
7664-39-3	Hydrogen fluoride	c	HI3		2.1		19		19	16
7783-06-4	Hydrogen sulfide		HI3		2.0		8.8		8.8	98
78-59-1	Isophorone		HI3		2,000		8,800		8,800	
67-63-0	Isopropyl alcohol		HI3		200		880		880	3,200
98-82-8	Isopropylbenzene (cumene)		HI3		400		1,800		1,800	
7439-92-1	Lead and compounds	c, l	HI3		0.15		0.66		0.66	0.15
108-31-6	Maleic anhydride		HI5		0.70		3.1		3.1	
7439-96-5	Manganese and compounds	l	HI3		0.090		0.40		0.40	0.30
7439-97-6	Mercury and compounds	c, l	HI3		0.077		0.63		0.63	0.60
67-56-1	Methanol		HI3		4,000		18,000		18,000	28,000
101-14-4	4,4'-Methylene bis(2-chloroaniline) (MOCA)			0.0023		0.060		0.028		



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Table 2

Risk-Based Concentrations

			Non cancer TBACT RAL ^m	Residential Chronic		Non-Residential Chronic				Acute
				Cancer RBC ^a	Non-cancer RBC ^a	Child Cancer RBC ^a	Child Non- cancer RBC ^a	Worker Cancer RBC ^a	Worker Non- cancer RBC ^a	Non-cancer RBC ^a
CASRN ^b	Chemical	Notes		(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)
101-77-9	4,4'-Methylenedianiline (and its dichloride)		HI5	0.00030	20	0.023	88	0.010	88	
101-68-8	Methylene diphenyl diisocyanate (MDI)		HI3		0.080		0.35		0.35	12
108-10-1	Methyl isobutyl ketone (MIBK, hexone)		HI3		3,000		13,000		13,000	
624-83-9	Methyl isocyanate		HI3		1.0		4.4		4.4	
80-62-6	Methyl methacrylate		HI5		700		3,100		3,100	
1634-04-4	Methyl <i>tert</i> -butyl ether		HI3	3.8	8,000	100	35,000	46	35,000	8,000
90-94-8	Michler's ketone			0.0040		0.10		0.048		
91-20-3	Naphthalene	c	HI3	0.029	3.7	0.76	16	0.35	16	200
365 [†]	Nickel compounds, insoluble	f	HI3	0.0038	0.014	0.10	0.062	0.046	0.062	0.20
368 [†]	Nickel compounds, soluble	f	HI3		0.014		0.062		0.062	0.20
7697-37-2	Nitric acid		HI5							86
98-95-3	Nitrobenzene		HI3	0.025	9.0	0.65	40	0.30	40	
79-46-9	2-Nitropropane		HI3		20		88		88	
924-16-3	N-Nitrosodibutylamine			0.00032		0.0084		0.0039		
55-18-5	N-Nitrosodiethylamine	g		5.9E-05		0.00062		0.0012		
62-75-9	N-Nitrosodimethylamine	g		0.00013		0.0013		0.0026		
86-30-6	N-Nitrosodiphenylamine			0.38		10		4.6		
156-10-5	<i>p</i> -Nitrosodiphenylamine			0.16		4.1		1.9		



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Table 2

Risk-Based Concentrations

			Non cancer TBACT RAL ^m	Residential Chronic		Non-Residential Chronic				Acute
				Cancer RBC ^a	Non-cancer RBC ^a	Child Cancer RBC ^a	Child Non- cancer RBC ^a	Worker Cancer RBC ^a	Worker Non- cancer RBC ^a	Non-cancer RBC ^a
CASRN ^b	Chemical	Notes		(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)
621-64-7	N-Nitrosodipropylamine			0.00050		0.013		0.0060		
10595-95-6	N-Nitrosomethylethylamine			0.00016		0.0041		0.0019		
59-89-2	N-Nitrosomorpholine			0.00053		0.014		0.0063		
100-75-4	N-Nitrosopiperidine			0.00037		0.0096		0.0044		
930-55-2	N-Nitrosopyrrolidine			0.0017		0.043		0.020		
8014-95-7	Oleum (fuming sulfuric acid)		HI3							120
56-38-2	Parathion		HI3							0.020
87-86-5	Pentachlorophenol			0.20		5.1		2.4		
108-95-2	Phenol		HI3		200		880		880	5,800
75-44-5	Phosgene		HI3		0.30		1.3		1.3	4.0
7803-51-2	Phosphine		HI3		0.80		3.5		3.5	
7664-38-2	Phosphoric acid		HI5		10		44		44	
12185-10-3	Phosphorus, white		HI3		9.0		40		40	20
85-44-9	Phthalic anhydride		HI3		20		88		88	
447 [†]	Polybrominated diphenyl ethers (PBDEs)	h	HI3							6.0
1336-36-3	Polychlorinated biphenyls (PCBs)	c		0.00053		0.020		0.0092		
645 [†]	Polychlorinated biphenyls (PCBs) TEQ	c	HI3	1.0E-09	1.3E-07	9.0E-08	2.6E-05	4.2E-08	2.6E-05	



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Table 2

Risk-Based Concentrations

			Non cancer TBACT RAL ^m	Residential Chronic		Non-Residential Chronic				Acute
				Cancer RBC ^a	Non-cancer RBC ^a	Child Cancer RBC ^a	Child Non- cancer RBC ^a	Worker Cancer RBC ^a	Worker Non- cancer RBC ^a	Non-cancer RBC ^a
CASRN ^b	Chemical	Notes		(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)
32598-13-3	PCB 77 [3,3',4,4'-tetrachlorobiphenyl]	c	HI3	1.0E-05	0.0013	0.00090	0.26	0.00042	0.26	
70362-50-4	PCB 81 [3,4,4',5-tetrachlorobiphenyl]	c	HI3	3.4E-06	0.00042	0.00030	0.085	0.00014	0.085	
32598-14-4	PCB 105 [2,3,3',4,4'-pentachlorobiphenyl]	c	HI3	3.4E-05	0.0042	0.0030	0.85	0.0014	0.85	
74472-37-0	PCB 114 [2,3,4,4',5-pentachlorobiphenyl]	c	HI3	3.4E-05	0.0042	0.0030	0.85	0.0014	0.85	
31508-00-6	PCB 118 [2,3',4,4',5-pentachlorobiphenyl]	c	HI3	3.4E-05	0.0042	0.0030	0.85	0.0014	0.85	
65510-44-3	PCB 123 [2,3',4,4',5'-pentachlorobiphenyl]	c	HI3	3.4E-05	0.0042	0.0030	0.85	0.0014	0.85	
57465-28-8	PCB 126 [3,3',4,4',5-pentachlorobiphenyl]	c	HI3	1.0E-08	1.3E-06	9.0E-07	0.00026	4.2E-07	0.00026	
38380-08-4	PCB 156 [2,3,3',4,4',5-hexachlorobiphenyl]	c	HI3	3.4E-05	0.0042	0.0030	0.85	0.0014	0.85	
69782-90-7	PCB 157 [2,3,3',4,4',5'-hexachlorobiphenyl]	c	HI3	3.4E-05	0.0042	0.0030	0.85	0.0014	0.85	
52663-72-6	PCB 167 [2,3',4,4',5,5'-hexachlorobiphenyl]	c	HI3	3.4E-05	0.0042	0.0030	0.85	0.0014	0.85	
32774-16-6	PCB 169 [3,3',4,4',5,5'-hexachlorobiphenyl]	c	HI3	3.4E-08	4.2E-06	3.0E-06	0.00085	1.4E-06	0.00085	
39635-31-9	PCB 189 [2,3,3',4,4',5,5'-heptachlorobiphenyl]	c	HI3	3.4E-05	0.0042	0.0030	0.85	0.0014	0.85	
646 [†]	Polychlorinated dibenzo- <i>p</i> -dioxins (PCDDs) &	c	HI3	1.0E-09	1.3E-07	9.0E-08	2.6E-05	4.2E-08	2.6E-05	



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Table 2
Risk-Based Concentrations

			Non cancer TBACT RAL ^m	Residential Chronic		Non-Residential Chronic				Acute
				Cancer RBC ^a	Non-cancer RBC ^a	Child Cancer RBC ^a	Child Non- cancer RBC ^a	Worker Cancer RBC ^a	Worker Non- cancer RBC ^a	Non-cancer RBC ^a
CASRN ^b	Chemical	Notes		(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)
	dibenzofurans (PCDFs) TEQ									
1746-01-6	2,3,7,8- Tetrachlorodibenzo- <i>p</i> - dioxin (TCDD)	c	HI3	1.0E-09	1.3E-07	9.0E-08	2.6E-05	4.2E-08	2.6E-05	
40321-76-4	1,2,3,7,8- Pentachlorodibenzo- <i>p</i> - dioxin (PeCDD)	c	HI3	1.0E-09	1.3E-07	9.0E-08	2.6E-05	4.2E-08	2.6E-05	
39227-28-6	1,2,3,4,7,8- Hexachlorodibenzo- <i>p</i> - dioxin (HxCDD)	c	HI3	1.0E-08	1.3E-06	9.0E-07	0.00026	4.2E-07	0.00026	
57653-85-7	1,2,3,6,7,8- Hexachlorodibenzo- <i>p</i> - dioxin (HxCDD)	c	HI3	1.0E-08	1.3E-06	9.0E-07	0.00026	4.2E-07	0.00026	
19408-74-3	1,2,3,7,8,9- Hexachlorodibenzo- <i>p</i> - dioxin (HxCDD)	c	HI3	1.0E-08	1.3E-06	9.0E-07	0.00026	4.2E-07	0.00026	
35822-46-9	1,2,3,4,6,7,8- Heptachlorodibenzo- <i>p</i> - dioxin (HpCDD)	c	HI3	1.0E-07	1.3E-05	9.0E-06	0.0026	4.2E-06	0.0026	
3268-87-9	Octachlorodibenzo- <i>p</i> - dioxin (OCDD)	c	HI3	3.4E-06	0.00042	0.00030	0.085	0.00014	0.085	
51207-31-9	2,3,7,8- Tetrachlorodibenzofuran (TCDF)	c	HI3	1.0E-08	1.3E-06	9.0E-07	0.00026	4.2E-07	0.00026	
57117-41-6	1,2,3,7,8- Pentachlorodibenzofuran (PeCDF)	c	HI3	3.4E-08	4.2E-06	3.0E-06	0.00085	1.4E-06	0.00085	



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Table 2

Risk-Based Concentrations

			Non cancer TBACT RAL ^m	Residential Chronic		Non-Residential Chronic				Acute
				Cancer RBC ^a	Non-cancer RBC ^a	Child Cancer RBC ^a	Child Non- cancer RBC ^a	Worker Cancer RBC ^a	Worker Non- cancer RBC ^a	Non-cancer RBC ^a
CASRN ^b	Chemical	Notes		(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	c	HI3	3.4E-09	4.2E-07	3.0E-07	8.5E-05	1.4E-07	8.5E-05	
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	c	HI3	1.0E-08	1.3E-06	9.0E-07	0.00026	4.2E-07	0.00026	
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	c	HI3	1.0E-08	1.3E-06	9.0E-07	0.00026	4.2E-07	0.00026	
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	c	HI3	1.0E-08	1.3E-06	9.0E-07	0.00026	4.2E-07	0.00026	
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	c	HI3	1.0E-08	1.3E-06	9.0E-07	0.00026	4.2E-07	0.00026	
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	c	HI3	1.0E-07	1.3E-05	9.0E-06	0.0026	4.2E-06	0.0026	
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	c	HI3	1.0E-07	1.3E-05	9.0E-06	0.0026	4.2E-06	0.0026	
39001-02-0	Octachlorodibenzofuran (OCDF)	c	HI3	3.4E-06	0.00042	0.00030	0.085	0.00014	0.085	
401 [†]	Polycyclic aromatic hydrocarbons (PAHs)	c, g, n		4.3E-05		0.0016		0.0030		
191-26-4	Anthanthrene	c, g		0.00011		0.0039		0.0076		
56-55-3	Benz[a]anthracene	c, g		0.00021		0.0078		0.015		



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Table 2

Risk-Based Concentrations

			Non cancer TBACT RAL ^m	Residential Chronic		Non-Residential Chronic				Acute
				Cancer RBC ^a	Non-cancer RBC ^a	Child Cancer RBC ^a	Child Non- cancer RBC ^a	Worker Cancer RBC ^a	Worker Non- cancer RBC ^a	Non-cancer RBC ^a
CASRN ^b	Chemical	Notes		(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)
50-32-8	Benzo[a]pyrene	c, g	HI3	4.3E-05	0.0020	0.0016	0.0088	0.0030	0.0088	0.0020
205-99-2	Benzo[b]fluoranthene	c, g		5.3E-05		0.0020		0.0038		
205-12-9	Benzo[c]fluorene	c, g		2.1E-06		7.8E-05		0.00015		
191-24-2	Benzo[g,h,i]perylene	c, g		0.0047		0.17		0.34		
205-82-3	Benzo[j]fluoranthene	c, g		0.00014		0.0052		0.010		
207-08-9	Benzo[k]fluoranthene	c, g		0.0014		0.052		0.10		
218-01-9	Chrysene	c, g		0.00043		0.016		0.030		
27208-37-3	Cyclopenta[c,d]pyrene	c, g		0.00011		0.0039		0.0076		
53-70-3	Dibenz[a,h]anthracene	c, g		4.3E-06		0.00016		0.00030		
192-65-4	Dibenzo[a,e]pyrene	c, g		0.00011		0.0039		0.0076		
189-64-0	Dibenzo[a,h]pyrene	c, g		4.7E-05		0.0017		0.0034		
189-55-9	Dibenzo[a,i]pyrene	c, g		7.1E-05		0.0026		0.0051		
191-30-0	Dibenzo[a,l]pyrene	c, g		1.4E-06		5.2E-05		0.00010		
206-44-0	Fluoranthene	c, g		0.00053		0.020		0.038		
193-39-5	Indeno[1,2,3-cd]pyrene	c, g		0.00061		0.022		0.043		
3697-24-3	5-Methylchrysene	c, g		4.3E-05		0.0016		0.0030		
7496-02-8	6-Nitrochrysene	c, g		4.3E-06		0.00016		0.00030		
7758-01-2	Potassium bromate			0.0071		0.19		0.086		
1120-71-4	1,3-Propane sultone			0.0014		0.038		0.017		
123-38-6	Propionaldehyde		HI5		8.0		35		35	
115-07-1	Propylene		HI5		3,000		13,000		13,000	



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Table 2

Risk-Based Concentrations

			Non cancer TBACT RAL ^m	Residential Chronic		Non-Residential Chronic				Acute
				Cancer RBC ^a	Non-cancer RBC ^a	Child Cancer RBC ^a	Child Non- cancer RBC ^a	Worker Cancer RBC ^a	Worker Non- cancer RBC ^a	Non-cancer RBC ^a
CASRN ^b	Chemical	Notes		(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)
6423-43-4	Propylene glycol dinitrate		HI5		0.27		1.2		1.2	20
107-98-2	Propylene glycol monomethyl ether		HI3		7,000		31,000		31,000	
75-56-9	Propylene oxide		HI3	0.27	30	7.0	130	3.2	130	3,100
572 [†]	Refractory ceramic fibers	i	HI5		0.030		0.13		0.13	
7783-07-5	Selenide, hydrogen		HI3							5.0
7782-49-2	Selenium and compounds	l	HI3							2.0
7631-86-9	Silica, crystalline (respirable)		HI5		3.0		13		13	
1310-73-2	Sodium hydroxide		HI3							8.0
100-42-5	Styrene		HI3		1,000		4,400		4,400	21,000
7664-93-9	Sulfuric acid		HI5		1.0		4.4		4.4	120
505-60-2	Sulfur mustard		HI3							0.70
7446-11-9	Sulfur trioxide		HI5		1.0		4.4		4.4	120
630-20-6	1,1,1,2-Tetrachloroethane			0.14		3.5		1.6		
79-34-5	1,1,2,2-Tetrachloroethane			0.017		0.45		0.21		
127-18-4	Tetrachloroethene (perchloroethylene)		HI3	3.8	41	100	180	46	180	41
811-97-2	1,1,1,2-Tetrafluoroethane		HI3		80,000		350,000		350,000	
62-55-5	Thioacetamide			0.00059		0.015		0.0071		



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Table 2

Risk-Based Concentrations

			Non cancer TBACT RAL ^m	Residential Chronic		Non-Residential Chronic				Acute
				Cancer RBC ^a	Non-cancer RBC ^a	Child Cancer RBC ^a	Child Non- cancer RBC ^a	Worker Cancer RBC ^a	Worker Non- cancer RBC ^a	Non-cancer RBC ^a
CASRN ^b	Chemical	Notes		(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)
7550-45-0	Titanium tetrachloride		HI3		0.10		0.44		0.44	10
108-88-3	Toluene		HI3		5,000		22,000		22,000	7,500
26471-62-5	Toluene diisocyanates (2,4- and 2,6-)		HI3	0.091	0.021	2.4	0.092	1.1	0.092	0.071
8001-35-2	Toxaphene (polychlorinated camphenes)			0.0031		0.081		0.038		
71-55-6	1,1,1-Trichloroethane (methyl chloroform)		HI3		5,000		22,000		22,000	11,000
79-00-5	1,1,2-Trichloroethane (vinyl trichloride)			0.063		1.6		0.75		
79-01-6	Trichloroethene (TCE, trichloroethylene)	g	HI3	0.20	2.1	3.5	9.2	2.9	9.2	2.1
88-06-2	2,4,6-Trichlorophenol			0.050		1.3		0.60		
96-18-4	1,2,3-Trichloropropane		HI5		0.30		1.3		1.3	1.8
121-44-8	Triethylamine		HI3		200		880		880	2,800
526-73-8	1,2,3-Trimethylbenzene		HI3		60		260		260	
95-63-6	1,2,4-Trimethylbenzene		HI3		60		260		260	
108-67-8	1,3,5-Trimethylbenzene		HI3		60		260		260	
51-79-6	Urethane (ethyl carbamate)	g		0.0020		0.021		0.041		
7440-62-2	Vanadium (fume or dust)		HI3		0.10		0.44		0.44	0.80
1314-62-1	Vanadium pentoxide		HI3	0.00012	0.0070	0.0031	0.031	0.0014	0.031	30
108-05-4	Vinyl acetate		HI3		200		880		880	200



OAR 340-245-8010 **Table 2** **Risk-Based Concentrations**

			Non cancer TBACT RAL ^m	Residential Chronic		Non-Residential Chronic				Acute
				Cancer RBC ^a	Non-cancer RBC ^a	Child Cancer RBC ^a	Child Non- cancer RBC ^a	Worker Cancer RBC ^a	Worker Non- cancer RBC ^a	Non-cancer RBC ^a
CASRN ^b	Chemical	Notes		(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)
593-60-2	Vinyl bromide		HI5		3.0		13		13	
75-01-4	Vinyl chloride	g, k	HI3	0.11	100	0.22	440	2.7	440	1,300
75-35-4	Vinylidene chloride		HI3		200		880		880	200
1330-20-7	Xylene (mixture), including <i>m</i> -xylene, <i>o</i> - xylene, <i>p</i> -xylene		HI3		220		970		970	8,700

Footnotes for OAR 340-245-8010 Table 2:

- † Chemical designated by DEQ ID number.
- a) RBC = Risk-Based Concentration
- b) CASRN = Chemical Abstracts Service Registry Number, or DEQ ID if there is no CASRN.
- c) Chronic RBCs include factors for multipathway risk.
- d) The RBCs presented for chromium are applicable to hexavalent chromium. In the absence of data indicating otherwise, assume that any total chromium (i.e., unspecified) that is measured or modeled is entirely in the hexavalent form. Determine, based on information about the source of emissions, whether hexavalent chromium is emitted in aerosol or particulate form, and apply the corresponding RBC. Because there are no RBCs for trivalent chromium, a source determined to be emitting only trivalent chromium cannot be shown to pose an unacceptable risk, so the risk in this case will be considered acceptable.
- e) DDT RBCs apply to the sum of DDT, DDE, and DDD compounds.
- f) As recommended by DEQ's Air Toxics Science Advisory Committee (ATSAC) in 2018, the two categories of nickel compounds contain the following specific nickel compounds:
Soluble nickel compounds are considered to be emitted mainly in aerosol form, to be less potent carcinogens than insoluble nickel compounds, and include nickel acetate, nickel chloride, nickel carbonate, nickel hydroxide, nickelocene, nickel sulfate, nickel sulfate hexahydrate, nickel nitrate hexahydrate, nickel carbonate hydroxide.
Insoluble nickel compounds are considered to be emitted mainly in particulate form, to be more potent carcinogens than soluble nickel compounds, and to include nickel subsulfide, nickel oxide, nickel sulfide, nickel metal.
- g) RBCs adjusted to protect early-life exposure to infants and children because chemical is carcinogenic by a mutagenic mode of action.
- h) RBCs apply to octabrominated diphenyl ethers (CASRN 32536-52-0) and pentabrominated diphenyl ethers (CASRN 32534-81-9), including BDE-99.
- i) RBCs for asbestos and refractory ceramic fibers are in units of fibers/cm³.
- j) Chlorinated paraffins of average chain length of C12, approximately 60% chlorine by weight.
- k) DEQ followed the ATSAC recommendation to develop a vinyl chloride TRV that already includes early-life exposure.
- l) An inorganic chemical designated with "and compounds" indicates that the RBC applies to the sum of all forms of the chemical, expressed as the inorganic element.
- m) Noncancer TBACT RAL = noncancer Toxics Best Available Control Technology Risk Action Level, OAR 340-245-8010, Table 1.

- n) Because RBCs for PAHs were developed using TRVs for benzo[a]pyrene, apply PAH RBCs to summed benzo[a]pyrene toxicity equivalents for carcinogenic PAHs. If individual PAHs are not evaluated, apply PAH RBCs to total PAH concentrations.



OAR 340-245-8010 Table 3
Level 1 Risk Assessment Dispersion Factors

Table 3A: Stack Emission Dispersion Factors for Annual Exposure
($\mu\text{g}/\text{m}^3$ / pounds/year)

Stack	Exposure Location Distance (meters)												
Ht (m)	50	60	70	80	90	100	110	120	130	140	150	160	170
5	0.0033	0.0026	0.0021	0.0017	0.0014	0.0012	0.0010	0.00088	0.00076	0.00066	0.00058	0.00051	0.00046
10	0.0014	0.0012	0.0011	0.00094	0.00084	0.00075	0.00068	0.00062	0.00057	0.00052	0.00048	0.00044	0.00041
15	0.00075	0.00061	0.00054	0.00049	0.00044	0.00040	0.00037	0.00034	0.00031	0.00029	0.00027	0.00025	0.00024
20	0.00072	0.00054	0.00035	0.00031	0.00028	0.00026	0.00023	0.00022	0.00020	0.00019	0.00017	0.00016	0.00015
25	0.00050	0.00041	0.00035	0.00025	0.00019	0.00018	0.00016	0.00015	0.00014	0.00013	0.00012	0.00012	0.00011
30	0.00037	0.00030	0.00026	0.00023	0.00019	0.00013	0.00012	0.00011	0.00010	0.000096	0.000090	0.000085	0.000080
35	0.00030	0.00023	0.00019	0.00017	0.00015	0.00013	0.00011	0.000081	0.000075	0.000071	0.000068	0.000064	0.000061
40	0.00023	0.00019	0.00015	0.00013	0.00012	0.00011	0.000096	0.000081	0.000064	0.000054	0.000051	0.000049	0.000047
45	0.00018	0.00016	0.00013	0.00011	0.000095	0.000085	0.000078	0.000072	0.000063	0.000053	0.000042	0.000038	0.000037
50	0.00014	0.00013	0.00011	0.000090	0.000077	0.000068	0.000062	0.000057	0.000053	0.000048	0.000042	0.000035	0.000029
Stack	Exposure Location Distance (meters)												
Ht (m)	180	190	200	250	300	350	400	450	500	600	700	800	1000
5	0.00041	0.00037	0.00034	0.00023	0.00017	0.00013	0.00010	0.000084	0.000071	0.000052	0.000040	0.000032	0.000022
10	0.00038	0.00035	0.00033	0.00023	0.00017	0.00013	0.000098	0.000078	0.000064	0.000047	0.000036	0.000029	0.000021
15	0.00023	0.00021	0.00020	0.00016	0.00013	0.00010	0.000083	0.000069	0.000057	0.000041	0.000032	0.000025	0.000018
20	0.00014	0.00014	0.00013	0.00010	0.000086	0.000073	0.000062	0.000053	0.000046	0.000035	0.000027	0.000021	0.000015
25	0.00010	0.000096	0.000091	0.000072	0.000059	0.000051	0.000044	0.000039	0.000034	0.000027	0.000022	0.000018	0.000013
30	0.000075	0.000071	0.000068	0.000053	0.000044	0.000037	0.000032	0.000028	0.000025	0.000021	0.000017	0.000014	0.000010
35	0.000058	0.000055	0.000052	0.000042	0.000034	0.000029	0.000025	0.000022	0.000019	0.000016	0.000014	0.000011	0.000008
40	0.000045	0.000043	0.000041	0.000033	0.000028	0.000023	0.000020	0.000018	0.000016	0.000013	0.000011	0.000009	0.000007
45	0.000036	0.000034	0.000033	0.000027	0.000023	0.000019	0.000017	0.000015	0.000013	0.000011	0.000009	0.000008	0.000006
50	0.000027	0.000026	0.000026	0.000022	0.000019	0.000016	0.000014	0.000012	0.000011	0.000009	0.000007	0.000006	0.000005

Table 3B: Stack Emission Dispersion Factors for 24 hour Exposure ($\mu\text{g}/\text{m}^3$ / pounds/day)

Stack	Exposure Location Distance (meters)												
Ht (m)	50	60	70	80	90	100	110	120	130	140	150	160	170
5	8.3	7.1	6.1	5.2	4.4	3.8	3.2	2.7	2.4	2.1	1.8	1.6	1.4
10	3.8	3.4	3.1	2.8	2.6	2.4	2.2	2.1	2.0	1.8	1.7	1.6	1.5
15	1.8	1.6	1.6	1.5	1.4	1.3	1.2	1.1	1.1	1.00	0.95	0.91	0.87
20	1.6	1.3	0.91	0.86	0.82	0.77	0.73	0.69	0.65	0.62	0.59	0.56	0.54

25	0.97	0.93	0.85	0.64	0.52	0.50	0.48	0.46	0.44	0.42	0.40	0.38	0.36
30	0.62	0.59	0.57	0.55	0.49	0.34	0.32	0.31	0.30	0.29	0.28	0.27	0.26
35	0.42	0.41	0.39	0.38	0.37	0.34	0.29	0.22	0.21	0.21	0.20	0.20	0.19
40	0.30	0.29	0.28	0.28	0.27	0.26	0.25	0.22	0.17	0.15	0.15	0.15	0.14
45	0.22	0.22	0.21	0.21	0.20	0.20	0.19	0.19	0.17	0.16	0.12	0.11	0.11
50	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.14	0.14	0.13	0.12	0.10	0.082
Stack	Exposure Location Distance (meters)												
Ht (m)	180	190	200	250	300	350	400	450	500	600	700	800	1000
5	1.3	1.2	1.1	0.72	0.55	0.44	0.36	0.30	0.26	0.20	0.16	0.13	0.092
10	1.4	1.3	1.3	0.91	0.67	0.50	0.38	0.30	0.25	0.18	0.14	0.12	0.088
15	0.83	0.80	0.77	0.64	0.53	0.43	0.36	0.30	0.25	0.18	0.13	0.10	0.075
20	0.52	0.49	0.48	0.40	0.35	0.31	0.27	0.23	0.20	0.16	0.12	0.096	0.064
25	0.35	0.34	0.32	0.27	0.23	0.21	0.19	0.17	0.15	0.12	0.100	0.082	0.057
30	0.25	0.24	0.23	0.19	0.17	0.15	0.13	0.12	0.11	0.095	0.078	0.066	0.048
35	0.18	0.18	0.17	0.15	0.13	0.11	0.099	0.090	0.083	0.072	0.062	0.053	0.040
40	0.14	0.14	0.13	0.11	0.10	0.088	0.078	0.070	0.064	0.056	0.049	0.044	0.033
45	0.11	0.11	0.10	0.092	0.081	0.072	0.065	0.058	0.053	0.045	0.040	0.036	0.028
50	0.081	0.080	0.079	0.072	0.065	0.059	0.053	0.048	0.044	0.037	0.032	0.029	0.024

Use of stack emission dispersion factors in a Level 1 screening risk assessment:

For each Toxics Emissions Unit, select the appropriate stack height and distance from the stack to nearest exposure locations approved by DEQ. For each exposure location, find the corresponding annual dispersion factor in Table 3A. For each toxic air contaminant, multiply the annual toxic air contaminant emission rate (in pounds/year) by the dispersion factor. Divide the product by the RBC for all the toxic air contaminants for the appropriate exposure location in OAR 340-245-8010 Table 2. Add up the resulting ratios for all Toxic Emissions Units for each exposure location. Compare the results with the Risk Action Levels in OAR 340-245-8010 Table 1. Repeat the process for daily emission rates (in pounds/day) using Table 3B at the acute exposure location.

For a stack height between the values shown in the table, either use the next lowest stack height, or interpolate the dispersion factor. For an exposure location distance between the values shown in the table, either use the next lowest distance, or interpolate the dispersion factor. For stack heights greater than 50 meters, use the appropriate dispersion factor for 50 meters. For exposure locations greater than 1,000 meters from the stack, use the appropriate dispersion factor at 1,000 meters. In the absence of a known stack height and exposure location distance, use as a default the annual dispersion factor ($0.0033 \mu\text{g}/\text{m}^3$ / pounds/year) and daily dispersion factor ($8.3 \mu\text{g}/\text{m}^3$ / pounds/day) for a stack height of 5 meters and an exposure location distance of 50 meters.

A Level 1 Risk Assessment will not be approved if the source is located near elevated terrain that DEQ determines could invalidate the assumptions used to develop the Level 1 Risk Assessment tool.

Stat. Auth.: ORS 468.020, 468.065, 468A.025, 468A.040, 468A.050, 468A.070, 468A.155

Stats. Implemented: ORS 468.065, 468A.010, 468A.015, 468A.025, 468A.035, 468A.040, 468A.050, 468A.070, and 468A.155



OAR 340-245-8010 Table 3
Level 1 Risk Assessment Dispersion Factors
Table 3C: Fugitive Emission Dispersion Factors for Annual Exposure
($\mu\text{g}/\text{m}^3$ / pounds/year)

Building Area	Building Height (ft)	Exposure Location Distance (meters)												
(1,000 ft ²)		50	60	70	80	90	100	110	120	130	140	150	160	170
≤3	≤20	0.0045	0.0033	0.0026	0.0020	0.0017	0.0014	0.0012	0.0010	0.00089	0.00078	0.00069	0.00062	0.00056
>3 to 6	≤20	0.0044	0.0032	0.0025	0.0020	0.0016	0.0014	0.0012	0.0010	0.00088	0.00077	0.00069	0.00061	0.00055
>3 to 6	>20	0.0041	0.0031	0.0024	0.0019	0.0016	0.0013	0.0011	0.0010	0.00086	0.00076	0.00067	0.00060	0.00054
>6 to 10	≤20	0.0044	0.0033	0.0025	0.0020	0.0017	0.0014	0.0012	0.0010	0.00088	0.00077	0.00069	0.00062	0.00055
>6 to 10	>20	0.0037	0.0028	0.0022	0.0018	0.0015	0.0013	0.0011	0.0010	0.00083	0.00074	0.00066	0.00059	0.00053
>10 to 15	≤20	0.0044	0.0033	0.0025	0.0020	0.0017	0.0014	0.0012	0.0010	0.00088	0.00077	0.00069	0.00062	0.00055
>10 to 15	>20	0.0034	0.0027	0.0021	0.0018	0.0015	0.0012	0.0011	0.00093	0.00081	0.00072	0.00064	0.00058	0.00052
>15 to 30	≤20	0.0043	0.0032	0.0025	0.0020	0.0016	0.0014	0.0012	0.0010	0.00088	0.00077	0.00069	0.00061	0.00055
>15 to 30	>20	0.0034	0.0027	0.0021	0.0018	0.0015	0.0012	0.0011	0.00093	0.00082	0.00072	0.00065	0.00058	0.00052
>30	>20	0.0022	0.0018	0.0015	0.0013	0.0011	0.0010	0.00086	0.00076	0.00068	0.00061	0.00055	0.00050	0.00046

Building Area	Building Height (ft)	Exposure Location Distance (meters)												
(1,000 ft ²)		180	190	200	250	300	350	400	450	500	600	700	800	1000
≤3	≤20	0.00050	0.00046	0.00042	0.00029	0.00021	0.00016	0.00013	0.00010	0.000087	0.000064	0.000049	0.000039	0.000027
>3 to 6	≤20	0.00050	0.00046	0.00042	0.00028	0.00021	0.00016	0.00013	0.00010	0.000087	0.000064	0.000049	0.000039	0.000027
>3 to 6	>20	0.00049	0.00045	0.00041	0.00028	0.00021	0.00016	0.00013	0.00010	0.000087	0.000064	0.000049	0.000039	0.000027
>6 to 10	≤20	0.00050	0.00046	0.00042	0.00028	0.00021	0.00016	0.00013	0.00010	0.000087	0.000064	0.000049	0.000039	0.000027
>6 to 10	>20	0.00048	0.00044	0.00041	0.00028	0.00020	0.00016	0.00013	0.00010	0.000086	0.000064	0.000049	0.000039	0.000027
>10 to 15	≤20	0.00050	0.00046	0.00042	0.00028	0.00021	0.00016	0.00013	0.00010	0.000087	0.000064	0.000049	0.000039	0.000027
>10 to 15	>20	0.00048	0.00044	0.00040	0.00028	0.00020	0.00016	0.00012	0.00010	0.000086	0.000063	0.000049	0.000039	0.000027
>15 to 30	≤20	0.00050	0.00046	0.00042	0.00028	0.00021	0.00016	0.00013	0.00010	0.000087	0.000064	0.000049	0.000039	0.000027
>15 to 30	>20	0.00048	0.00044	0.00040	0.00028	0.00020	0.00016	0.00013	0.00010	0.000086	0.000063	0.000049	0.000039	0.000027
>30	>20	0.00042	0.00039	0.00036	0.00025	0.00019	0.00015	0.00012	0.00010	0.000083	0.000061	0.000048	0.000038	0.000027

Table 3D: Fugitive Emission Dispersion Factors for 24 hour Exposure ($\mu\text{g}/\text{m}^3$ / pounds/day)

Building Area	Building Height (ft)	Exposure Location Distance (meters)												
(1,000 ft ²)		50	60	70	80	90	100	110	120	130	140	150	160	170
≤3	≤20	4.8	3.7	2.9	2.4	2.0	1.7	1.4	1.2	1.1	0.97	0.87	0.78	0.71

>3 to 6	≤20	4.1	3.1	2.5	2.0	1.7	1.4	1.2	1.1	0.95	0.84	0.76	0.68	0.62
>3 to 6	>20	3.5	2.8	2.2	1.9	1.6	1.3	1.2	1.0	0.90	0.80	0.72	0.65	0.59
>6 to 10	≤20	4.0	3.1	2.5	2.0	1.7	1.4	1.2	1.1	0.94	0.84	0.75	0.68	0.62
>6 to 10	>20	3.3	2.6	2.1	1.8	1.5	1.3	1.1	0.97	0.86	0.77	0.69	0.63	0.57
>10 to 15	≤20	4.0	3.1	2.4	2.0	1.7	1.4	1.2	1.1	0.94	0.84	0.75	0.68	0.62
>10 to 15	>20	2.9	2.4	2.0	1.6	1.4	1.2	1.1	0.93	0.83	0.74	0.67	0.61	0.56
>15 to 30	≤20	3.7	2.9	2.3	1.9	1.6	1.4	1.2	1.0	0.92	0.82	0.74	0.67	0.61
>15 to 30	>20	2.9	2.3	1.9	1.6	1.4	1.2	1.0	0.92	0.82	0.74	0.67	0.60	0.55
>30	>20	1.8	1.5	1.3	1.2	1.0	0.92	0.82	0.73	0.66	0.60	0.55	0.51	0.47
Building Area	Building Height (ft)	Exposure Location Distance (meters)												
(1,000 ft ²)		180	190	200	250	300	350	400	450	500	600	700	800	1000
≤3	≤20	0.65	0.59	0.55	0.38	0.29	0.22	0.18	0.15	0.13	0.095	0.074	0.060	0.043
>3 to 6	≤20	0.57	0.52	0.48	0.33	0.25	0.20	0.16	0.13	0.11	0.083	0.065	0.053	0.038
>3 to 6	>20	0.54	0.50	0.46	0.32	0.24	0.19	0.15	0.13	0.11	0.081	0.064	0.052	0.037
>6 to 10	≤20	0.56	0.52	0.48	0.33	0.25	0.20	0.16	0.13	0.11	0.083	0.065	0.053	0.038
>6 to 10	>20	0.53	0.48	0.45	0.31	0.24	0.19	0.15	0.12	0.11	0.080	0.063	0.051	0.036
>10 to 15	≤20	0.56	0.52	0.48	0.33	0.25	0.19	0.16	0.13	0.11	0.083	0.065	0.053	0.038
>10 to 15	>20	0.51	0.47	0.43	0.31	0.23	0.18	0.15	0.12	0.10	0.078	0.062	0.050	0.035
>15 to 30	≤20	0.55	0.51	0.47	0.33	0.25	0.19	0.16	0.13	0.11	0.083	0.065	0.053	0.037
>15 to 30	>20	0.51	0.47	0.43	0.31	0.23	0.18	0.15	0.12	0.10	0.078	0.062	0.050	0.035
>30	>20	0.43	0.40	0.37	0.27	0.21	0.17	0.14	0.12	0.098	0.075	0.059	0.048	0.034
Use of fugitive emission dispersion factors in a Level 1 screening risk assessment:														
For each Toxics Emissions Unit, select the appropriate building dimensions and distance from building to nearest exposure locations approved by DEQ. For each exposure location, find the corresponding annual dispersion factor in Table 3C. For each toxic air contaminant, multiply the annual toxic air contaminant emission rate (in pounds/year) by the dispersion factor. Divide the product by the RBC for all the toxic air contaminants for the appropriate exposure location in OAR 340-245-8010 Table 2. Add up the resulting ratios for all Toxic Emissions Units for each exposure location. Compare the results with the Risk Action Levels in OAR 340-245-8010 Table 1. Repeat the process for daily emission rates (in pounds/day) using Table 3D at the acute exposure location.														
For an exposure location distance between the values shown in the table, either use the next lowest distance, or interpolate the dispersion factor. For exposure locations greater than 1,000 meters from the building, use the appropriate dispersion factor at 1,000 meters. In the absence of known building dimensions and exposure location distance, use as a default, the annual dispersion factor (0.0045 µg/m ³ / pounds/year) and daily dispersion factor (4.8 µg/m ³ / pounds/day) for a building area of ≤3,000 ft ² , height of ≤20 ft, and exposure location distance of 50 meters.														
A Level 1 Risk Assessment will not be approved if the source is located near elevated terrain that DEQ determines could invalidate the assumptions used to develop the Level 1 Risk Assessment Dispersion Factors.														

Stat. Auth.: ORS 468.020, 468.065, 468A.025, 468A.040, 468A.050, 468A.070, 468A.155

Stats. Implemented: ORS 468.065, 468A.010, 468A.015, 468A.025, 468A.035, 468A.040, 468A.050, 468A.070, and 468A.155