NEBRASKA ADMINISTRATIVE CODE

Title 129 - Department of Environmental Quality

Appendix III – HAZARDOUS AIR POLLUTANTS; SORTED BY CHEMICAL NAME

CAS Number		Chemical Name	~~VOC~~	Reporting Level (Lbs/Year)
75070		Acetaldehyde	~~No~~	80
60355		Acetamide	~~No~~	100
75058		Acetonitrile	~~Yes~~	1,000
98862		Acetophenone	~~Yes~~	20
53963	2-	Acetylaminofluorine [8]	~~Yes~~	1,000
107028		Acrolein	~~No~~	800
79061		Acrylamide	~~Yes~~	20
79107		Acrylic acid	~~Yes~~	10
107131		Acrylonitrile	~~Yes~~	1,000
107051		Allyl chloride	~~Yes~~	100
92671	4-	Aminobiphenyl [8]	~~Yes~~	20
62533		Aniline	~~Yes~~	16
90040	o-	Anisidine	~~Yes~~	100
7440360		Antimony compounds (except those specifically listed) [5] [8]	~~Yes~~	20
7783702		Antimony pentafluoride [8]	~~Yes~~	0
28300745		Antimony potassium tartrate [8]	~~No~~	20
1309644		Antimony trioxide [8]	~~Yes~~	1,000
1345046		Antimony trisulfide [8]	~~Yes~~	1,000
7440382		Arsenic and inorganic arsenic compounds [8]	~~Yes~~	60
7784421		Arsine [8]	~~Yes~~	1,000
1332214		Asbestos	~~No~~	20
56553		Benz(a)anthracene	~~Yes~~	1,000
225514		Benz(c)aridine	~~Yes~~	200
71432		Benzene	~~Yes~~	2
92875		Benzidine [8]	~~No~~	2,000
50328		Benzo(a)pyrene	~~Yes~~	1,000
205992		Benzo(b)fluoranthene	~~Yes~~	2,000
98077		Benzotrichloride	~~Yes~~	900
100447		Benzyl chloride	~~No~~	2,000
7440417		Beryllium compounds (except Beryllium salts) [5]	~~Yes~~	1,000

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CAS Number	Chemical Name	~~VOC~~	Reporting Level (Lbs/Year)
	[8]		
-	Beryllium salts [8]	~~Yes~~	1,000
92524	Biphenyl [8]	~~No~~	2,000
117817	Bis(2-ethylhexyl)phthalate(DEHP)	~~Yes~~	2,000
542881	Bis(chloromethyl)ether	~~Yes~~	2,000
75252	Bromoform	~~Yes~~	2,000
106990	1,3- Butadiene	~~Yes~~	1,000
7440439	Cadmium compounds (except those specifically listed) [5] [8]	~~No~~	0
130618	Cadmium oxide [8]	~~Yes~~	2,000
156627	Calcium cyanamide	~~Yes~~	200
133062	Captan	~~Yes~~	1,000
63252	Carbaryl [8]	~~Yes~~	2,000
75150	Carbon disulfide	~~No~~	2,000
56235	Carbon tetrachloride	~~Yes~~	1,000
463581	Carbonyl sulfide	~~Yes~~	100
120809	Catechol	~~Yes~~	2,000
142844006	Ceramic fibers [8]	~~Yes~~	1,000
133904	Chloramben	~~Yes~~	400
57749	Chlordane	~~Yes~~	100
7782505	Chlorine	~~Yes~~	6
79118	Chloroacetic acid	~~Yes~~	2,000
532274	2- Chloroacetophenone	~~No~~	20
108907	Chlorobenzene	~~Yes~~	20
510156	Chlorobenzilate [8]	~~Yes~~	100
67663	Chloroform	~~Yes~~	100
107302	Chloromethyl methyl ether	~~No~~	20
126998	Chloroprene	~~Yes~~	2,000
10025737	Chromic chloride	~~Yes~~	1,000
7440473	Chromium compounds (except Hexavalent and Trivalent) [5] [8]	~~Yes~~	1,000
218019	Chrysene	~~Yes~~	2,000
10210681	Cobalt carbonyl [8]	~~Yes~~	20
7440484	Cobalt compounds (except those specifically listed) [5] [8]	~~Yes~~	600

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CAS Number	Chemical Name		~~VOC~~	Reporting Level (Lbs/Year)
-		Coke oven emissions	~~Yes~~	100
108394	m-	Cresol [8]	~~Yes~~	300
95487	o-	Cresol [8]	~~Yes~~	20
106445	p-	Cresol [8]	~~Yes~~	1,000
1319773		Cresols/Cresylic acid (isomers and mixture) [8]	~~Yes~~	2,000
98828		Cumene	~~Yes~~	300
-		Cyanide compounds (except those specifically listed) [1] [5] [8]	~~Yes~~	2,000
94757	2.4-	D, salts, esters (2,4-Dichlorophenoxy acetic acid)	~~No~~	2,000
334883		Diazomethane	~~Yes~~	900
53703		Dibenz(a, h)anthracene	~~Yes~~	700
132649		Dibenzofurans [8]	~~Yes~~	2,000
189559	1,2:7,8-	Dibenzopyrene	~~Yes~~	1,000
96128	1,2-	Dibromo-3-chloropropane	~~Yes~~	2,000
84742		Dibutylphthalate	~~Yes~~	12
106467	1,4-	Dichlorobenzene(p)	~~Yes~~	200
91941	3,3'-	Dichlorobenzidene [8]	~~Yes~~	2,000
3547044	p,p'-	Dichlorodiphenyl ethane (DDE) [8]	~~Yes~~	1,000
111444		Dichloroethyl ether (Bis(2-chloroethyl)ether)	~~Yes~~	0.6
542756	1,3-	Dichloropropene	~~Yes~~	1,000
62737		Dichlorvos	~~Yes~~	2,000
111422		Diethanolamine	~~Yes~~	2,000
64675		Diethyl sulfate	~~Yes~~	1,000
119904	3,3'-	Dimethoxybenzidine [8]	~~Yes~~	1,000
60117	4-	Dimethyl aminoazobenzene	~~Yes~~	20
119937	3,3'	Dimethyl benzidine [8]	~~Yes~~	1,000
79447		Dimethyl carbamoyl chloride	~~Yes~~	1,000
68122		Dimethyl formamide	~~Yes~~	20
57147	1,1-	Dimethyl hydrazine	~~No~~	600
131113		Dimethyl phthalate	~~Yes~~	12
77781		Dimethyl sulfate	~~Yes~~	2,000
121697	N,N-	Dimethylaniline	~~Yes~~	1,000
57976	7,12-	Dimethylbenz(a)anthracene	~~Yes~~	1,000
534521	4,6-	Dinitro-o-cresol, and salts	~~Yes~~	2,000
51285	2,4-	Dinitrophenol	~~Yes~~	2,000

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CAS Number	Chemical Name		~~VOC~~	Reporting Level (Lbs/Year)
121142	2,4-	Dinitrotoluene	~~Yes~~	1,000
123911	1,4-	Dioxane (1,4-Diethyleneoxide)	~~Yes~~	100
-		Dioxins & Furans (TCDD equivalent) [6]	~~No~~	200
122667	1,2-	Diphenylhydrazine	~~No~~	100
7439976		Elemental mercury [8]	~~No~~	1,000
106898		Epichlorohydrin (1-Chloro-2,3-epoxypropane)	~~Yes~~	2,000
106887	1,2-	Epoxybutane	~~Yes~~	1,000
66733219		Erionite [8]	~~Yes~~	1,000
110805	2-	Ethoxy ethanol [8]	~~Yes~~	2,000
140885		Ethyl acrylate	~~Yes~~	2,000
100414		Ethyl benzene	~~Yes~~	1,000
51796		Ethyl carbamate (Urethane)	~~Yes~~	1,000
75003		Ethyl chloride (Chloroethane)	~~Yes~~	100
106934		Ethylene dibromide (Dibromoethane)	~~Yes~~	70
107062		Ethylene dichloride (1,2-Dichloroethane)	~~Yes~~	40
107211		Ethylene glycol	~~Yes~~	1,000
151564		Ethyleneimine (Aziridine)	~~Yes~~	1,000
75218		Ethylene oxide	~~Yes~~	300
96457		Ethylene thiourea	~~Yes~~	2,000
75343		Ethylidene dichloride (1,1-Dichloroethane)	~~Yes~~	100
62207765		Fluomine	~~Yes~~	1,000
50000		Formaldehyde	~~Yes~~	2,000
65997173		Glass wool [8]	~~No~~	1,000
-		Glycol ethers (except those specifically listed) [2] [5] [8]	~~Yes~~	2,000
76448		Heptachlor	~~Yes~~	1,000
118741		Hexachlorobenzene	~~No~~	2,000
87683		Hexachlorobutadiene	~~Yes~~	2,000
77474		Hexachlorocyclopentadiene	~~Yes~~	2,000
67721		Hexachloroethane	~~Yes~~	100
822060		Hexamethylene,-1,6-diisocyanate	~~Yes~~	2,000
680319		Hexamethylphosphoramide	~~No~~	2,000
110543		Hexane	~~Yes~~	2,000
18540299		Hexavalent chromium compounds [8]	~~Yes~~	60
302012		Hydrazine	~~No~~	2,000

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CAS Number		Chemical Name	~~VOC~~	Reporting Level (Lbs/Year)
7647010		Hydrochloric acid	~~Yes~~	2,000
74908		Hydrogen cyanide	~~No~~	20
7664393		Hydrogen fluoride (Hydrofluoric acid)	~~Yes~~	100
7783075		Hydrogen selenide [8]	~~Yes~~	16
123319		Hydroquinone	~~Yes~~	2,000
193395		Ideno(1,2,3-cd)pyrene	~~Yes~~	2,000
78591		Isophorone	~~Yes~~	20
7439921		Lead and compounds (except those specifically listed) [5] [8]	~~Yes~~	2,000
58899		Lindane (all isomers)	~~Yes~~	1,000
108316		Maleic anhydride	~~Yes~~	90
7439965		Manganese and compounds (except those specifically listed) [5]	~~Yes~~	1,000
748794		Mercuric chloride [8]	~~Yes~~	2,000
10045940		Mercuric nitrate [8]	~~Yes~~	2,000
-		Mercury compounds (except those specifically listed) [5] [8]	~~Yes~~	1,000
67561		Methanol	~~No~~	2,000
108864	2-	Methoxy ethanol [8]	~~No~~	20
72435		Methoxychlor	~~Yes~~	2,000
74839		Methyl bromide (Bromomethane)	~~No~~	2,000
74873		Methyl chloride (Chloromethane)	~~No~~	2,000
71556		Methyl chloroform (1,1,1-Trichlorethane)	~~No~~	1,000
60344		Methyl hydrazine	~~Yes~~	1,000
74884		Methyl iodide (Iodomethane)	~~No~~	100
108101		Methyl isobutyl ketone	~~Yes~~	6
624839		Methyl isocyanate	~~No~~	2,000
80626		Methyl methacrylate	~~Yes~~	20
1634044		Methyl tert butyl ether	~~Yes~~	20
12108133		Methylcyclopentadienyl manganese	~~Yes~~	20
101144	4,4-	Methylene bis (2-chloroaniline) [8]	~~Yes~~	20
75092		Methylene chloride (Dichloromethane)	~~Yes~~	20
101688		Methylene diphenyl diisocyanate (MDI) [8]	~~No~~	8
101779	4,4'-	Methylenedianiline	~~Yes~~	1,000
-		Mineral fiber compounds (except those	~~Yes~~	2,000

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CAS Number		Chemical Name	~~VOC~~	Reporting Level (Lbs/Year)
		specifically listed) [3] [5] [8]		
91203		Naphthalene	~~Yes~~	400
13463393		Nickel carbonyl [8]	~~Yes~~	60
7440020		Nickel compounds (except those specifically listed) [5] [8]	~~No~~	100
1146		Nickel refinery dust [8]	~~Yes~~	2,000
12035722		Nickel subsulfide [8]	~~Yes~~	1,000
98953		Nitrobenzene	~~Yes~~	0.6
92933	4-	Nitrobiphenyl [8]	~~Yes~~	100
100027	4-	Nitrophenol	~~Yes~~	600
79469	2-	Nitropropane	~~Yes~~	100
62759	N-	Nitrosodimethylamine	~~No~~	20
59892	N-	Nitrosomorpholine	~~Yes~~	0
684935	N-	Nitroso-N-methylurea	~~No~~	20
56382		Parathion	~~No~~	20
82688		Pentachloronitrobenzene (Quintobenzene)	~~No~~	30
87865		Pentachlorophenol	~~No~~	2,000
108952		Phenol	~~No~~	1,000
62384		Phenyl mercuric acetate [8]	~~Yes~~	1,000
106503	p-	Phenylenediamine	~~Yes~~	2,000
75445		Phosgene	~~No~~	0
7803512		Phosphine	~~Yes~~	18
7723140		Phosphorous	~~No~~	100
85449		Phthalic anhydride	~~No~~	2,000
1336363		Polychlorinated biphenyls (Aroclors, PCBs)	~~Yes~~	2,000
-		Polycyclic organic mater-POM (except those specifically listed) [5] [8]	~~No~~	0.0012
151508		Potassium cyanide [8]	~~Yes~~	20
1120714	1,3-	Propane sultone	~~No~~	20
57578	beta-	Propiolactone	~~No~~	800
123386		Propionaldehyde	~~No~~	20
114261		Propoxur (Baygon)	~~No~~	1,000
78875		Propylene dichloride (1,2-Dichloropropane)	~~No~~	2,000
75569		Propylene oxide	~~No~~	10
75558	1,2-	Propylenimine (2-Methyl aziridine)	~~No~~	16

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CAS Number		Chemical Name	~~VOC~~	Reporting Level (Lbs/Year)
91225		Quinoline [8]	~~No~~	20
106514		Quinone	~~No~~	2,000
99999918		Radionuclides (including radon)[4]	~~No~~	100
-		Rock wool [8]	~~No~~	100
7782492		Selenium and compounds (except those specifically listed) [5] [8]	~~No~~	100
7488564		Selenium sulfide (mono and di) [8]	~~No~~	2,000
14464461		Silica (crystalline) [8]	~~No~~	100
		Slag wool [8]	~~No~~	100
		Sodium cyanide [8]	~~No~~	100
		Sodium selenate [8]	~~No~~	100
		Sodium selenite [8]	~~No~~	100
		Styrene	~~No~~	100
		Styrene oxide	~~No~~	10
		Talc (containing asbestos form fibers) [8]	~~No~~	2,000
	2,3,7,8-	Tetrachlorodibenzo-p-dioxin [8]	~~No~~	20
	1,1,2,2-	Tetrachloroethane	~~No~~	100
		Tetrachloroethylene (Perchloroethylene)	~~No~~	0
		Tetraethyl lead [8]	~~No~~	100
		Tetramethyl lead [8]	~~No~~	100
		Titanium tetrachloride	~~No~~	40
		Toluene	~~No~~	100
	2,4-	Toluene diamine	~~No~~	100
	2,4-	Toluene diisocyanate	~~No~~	0
	o-	Toluidine	~~No~~	0
		Toxaphene (chlorinated camphene)	~~No~~	0
	1,2,4-	Trichlorobenzene	~~No~~	4
	1,1,2-	Trichloroethane	~~No~~	1,000
		Trichloroethylene	~~No~~	100
	2,4,5-	Trichlorophenol	~~No~~	0
	2,4,6-	Trichlorophenol	~~No~~	0
		Triethylamine	~~No~~	[7]
		Trifluralin	~~No~~	0
2,2,4-		Trimethylpentane	~~No~~	0.04
		Trivalent chromium compounds (chromium oxide)	~~No~~	2,000

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CAS Number	Chemical Name	~~VOC~~	Reporting Level (Lbs/Year)
	[8]		
	Vinyl acetate	~~No~~	30
	Vinyl bromide (bromoethene)	~~No~~	0
	Vinyl chloride	~~No~~	0
	Vinylidene chloride (1,1-Dichloroethylene)	~~No~~	20
m-	Xylenes [8]	~~No~~	0
o-	Xylenes [8]	~~No~~	0
p-	Xylenes [8]	~~Yes~~	20
	Xylenes (isomers and mixture) [8]	~~No~~	0

[1] XCN where X=H or any other group where a formal dissociation may occur.

[2] Include mono-and di-ethers of ethylene glycol, diethylene glycol, and triethylene glycol R-(OCH2CH2)n-OR' where n=1, 2, or 3; R=alkyl or aryl groups, R'=R,H, or groups which, when removed, yield glycol ethers with the structure: R-(OCH2CH)n-OH. Polymers are excluded from the glycol category. Ethylene glycol monobutyl ether is excluded from this category.

[3] Includes glass microfibers, glass wool fibers, rock wool fibers and slag wool fibers, each characterized as "respirable" (fiber diameter < 3.5 micrometers) and possessing an aspect ratio (fiber length divided by fiber diameter) > 3.

[4] A type of atom which spontaneously undergoes radioactive decay.

[5] For this chemical group, specific compounds or subgroups are named specifically in this table. For the remainder of the chemicals in the chemical group, a single de minimis value is listed, and this value applies to the sum of the compounds in the group which are not named specifically.

[6] The "toxic equivalent factor" method in EPA/625/3-89-016, [U.S. EPA (1989) Interim procedures for estimating risk associated with exposure to mixtures] should be used for PCDD/PCDF mixtures. A different de minimis level will be determined for each mixture depending on the equivalency factors which are compound specific.

[7] The EPA relies on Subparts B and I, and Appendix E of 40 CFR Part 61 and assigns a de minimis level based on an effective dose equivalent of 0.3 millirem per year for a 7 year exposure period that would result in a cancer risk of 1 per million. The individual radionuclides subject to de minimis levels used for section 112(g) are also contained in 40 CFR Part 61.

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[8] Emissions from all substances in each set below should be aggregated for the purpose of determining major source status as described in Chapter 2, section 001:

Cresols/Cresylic acid (isomers and mixture); m-Cresol; o-Cresol; p-Cresol
Xylenes (isomers and mixture); m-Xylenes; o-Xylenes, p-Xylenes
Antimony compounds; Antimony pentafluoride; Antimony postassium tartrate; Antimony trioxide; Antimony trisulfide
Arsenic and inorganic arsenic compounds; Arsine
Beryllium compounds (except Beryllium salts); Beryllium salts
Cadmium compounds; Cadmium oxide
Chromium compounds (except Hexavalent and Trivalent); Hexavalent chromium compounds; Trivalent chromium compounds (chromium oxide)
Cobalt compounds; Cobalt carbonyl
Cyanide compounds; Potassium cyanide; Sodium cyanide
Glycol ethers; 2-Ethoxy ethanol; 2-Methoxy ethanol
Lead and compounds; Tetraethyl lead; Tetramethyl lead
Mercury compounds; Elemental mercury; Mercuric chloride; Mercuric nitrate; Phenyl mercuric acetate
Mineral fiber compounds; Ceramic fibers; Erionite; Glass wool; Rock Wool; Silica (crystalline); Slag wool; Talc (containing asbestos form fibers);
Nickel compounds; Nickel carbonyl; Nickel refinery dust; Nickel subsulfide

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Polycyclic organic matter (POM); 2-Acetylaminofluorene; 4-Aminobiphenyl; Benzidine; Biphenyl; Carbaryl; Chlorobenzilate; Dibenzofurans; 3,3-Dichlorobenzidine; p,p'-Dichlorodiphenyl ethane (DDE); 3,3-Dimethoxybenzidine; 3,3'-Dimethylbenzidine; 4,4-Methylene bis(2 Chloroaniline); Methylene Diphenyl Diisocyanate; 4-Nitrobiphenyl; Quinoline; 2,3,7,8-Tetrachlorodibenzo-p-dioxin
Selenium and compounds; Hydrogen selenide; Selenium sulfide (mono and di); Sodium selenate; Sodium selenite