NEBRASKA ADMINISTRATIVE CODE

Title 129 - Department of Environmental Quality

Appendix II – HAZARDOUS AIR POLLUTANTS; SORTED BY CAS NUMBER

CAS Number	Chemical Name	~~VOC~~	Reporting Level (Lbs/Year)
1146	Nickel refinery dust [8]	~~No~~	80
14333	Sodium cyanide [8]	~~No~~	100
50000	Formaldehyde	~~Yes~~	1,000
50328	Benzo(a)pyrene	~~Yes~~	20
51285	2,4- Dinitrophenol	~~Yes~~	1,000
51796	Ethyl carbamate (Urethane)	~~No~~	800
53703	Dibenz(a, h)anthracene	~~Yes~~	20
53963	2- Acetylaminofluorine [8]	~~Yes~~	10
56235	Carbon tetrachloride	~~Yes~~	1,000
56382	Parathion	~~Yes~~	100
56553	Benz(a)anthracene	~~Yes~~	20
57147	1,1- Dimethyl hydrazine	~~Yes~~	16
57578	beta- Propiolactone	~~Yes~~	100
57749	Chlordane	~~Yes~~	20
57976	7,12- Dimethylbenz(a)anthracene	~~Yes~~	0
58899	Lindane (all isomers)	~~No~~	20
59892	N- Nitrosomorpholine	~~Yes~~	1,000
60117	4- Dimethyl aminoazobenzene	~~Yes~~	1,000
60344	Methyl hydrazine	~~Yes~~	60
60355	Acetamide	~~Yes~~	1,000
62384	Phenyl mercuric acetate [8]	~~No~~	20
62533	Aniline	~~Yes~~	1,000
62737	Dichlorvos	~~Yes~~	200
62759	N- Nitrosodimethylamine	~~Yes~~	2
63252	Carbaryl [8]	~~No~~	2,000
64675	Diethyl sulfate	~~Yes~~	1,000
67561	Methanol	~~Yes~~	2,000
67663	Chloroform	~~Yes~~	900
67721	Hexachloroethane	~~No~~	2,000
68122	Dimethyl formamide	~~Yes~~	1,000
71432	Benzene	~~Yes~~	1,000

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CAS Number	Chemical Name	~~VOC~~	Reporting Level (Lbs/Year)
71556	Methyl chloroform (1,1,1-Trichlorethane)	~~No~~	2,000
72435	Methoxychlor	~~Yes~~	2,000
74839	Methyl bromide (Bromomethane)	~~Yes~~	2,000
74873	Methyl chloride (Chloromethane)	~~Yes~~	2,000
74884	Methyl iodide (Iodomethane)	~~Yes~~	1,000
74908	Hydrogen cyanide	~~No~~	0
75003	Ethyl chloride (Chloroethane)	~~Yes~~	2,000
75014	Vinyl chloride	~~Yes~~	200
75058	Acetonitrile	~~Yes~~	1,000
75070	Acetaldehyde	~~Yes~~	2,000
75092	Methylene chloride (Dichloromethane)	~~No~~	2,000
75150	Carbon disulfide	~~Yes~~	1,000
75218	Ethylene oxide	~~Yes~~	100
75252	Bromoform	~~Yes~~	2,000
75343	Ethylidene dichloride (1,1-Dichloroethane)	~~Yes~~	1,000
75354	Vinylidene chloride (1,1-Dichloroethylene)	~~Yes~~	400
75445	Phosgene	~~Yes~~	100
75558	1,2- Propylenimine (2-Methyl aziridine)	~~Yes~~	6
75569	Propylene oxide	~~Yes~~	2,000
75741	Tetramethyl lead [8]	~~No~~	20
76448	Heptachlor	~~Yes~~	20
77474	Hexachlorocyclopentadiene	~~Yes~~	100
77781	Dimethyl sulfate	~~Yes~~	100
78002	Tetraethyl lead [8]	~~No~~	20
78591	Isophorone	~~Yes~~	2,000
78875	Propylene dichloride (1,2-Dichloropropane)	~~Yes~~	1,000
79005	1,1,2- Trichloroethane	~~Yes~~	1,000
79016	Trichloroethylene	~~Yes~~	2,000
79061	Acrylamide	~~Yes~~	20
79107	Acrylic acid	~~Yes~~	600
79118	Chloroacetic acid	~~Yes~~	100
79345	1,1,2,2- Tetrachloroethane	~~Yes~~	300
79447	Dimethyl carbamoyl chloride	~~Yes~~	20

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CAS Number	Chemical Name		~~VOC~~	Reporting Level (Lbs/Year)
79469	2-	Nitropropane	~~Yes~~	1,000
80626		Methyl methacrylate	~~Yes~~	2,000
82688		Pentachloronitrobenzene (Quintobenzene)	~~Yes~~	300
84742		Dibutylphthalate	~~Yes~~	2,000
85449		Phthalic anhydride	~~No~~	2,000
87683		Hexachlorobutadiene	~~Yes~~	900
87865		Pentachlorophenol	~~Yes~~	700
88062	2,4,6-	Trichlorophenol	~~Yes~~	2,000
90040	o-	Anisidine	~~Yes~~	1,000
91203		Naphthalene	~~Yes~~	2,000
91225		Quinoline [8]	~~Yes~~	12
91941	3,3'-	Dichlorobenzidene [8]	~~Yes~~	200
92524		Biphenyl [8]	~~Yes~~	2,000
92671	4-	Aminobiphenyl [8]	~~Yes~~	1,000
92875		Benzidine [8]	~~Yes~~	0.6
92933	4-	Nitrobiphenyl [8]	~~Yes~~	1,000
94757	2.4-	D, salts, esters (2,4-Dichlorophenoxy acetic acid)	~~Yes~~	2,000
95476	o-	Xylenes [8]	~~Yes~~	2,000
95487	o-	Cresol [8]	~~Yes~~	1,000
95534	o-	Toluidine	~~Yes~~	1,000
95807	2,4-	Toluene diamine	~~Yes~~	20
95954	2,4,5-	Trichlorophenol	~~Yes~~	1,000
96093		Styrene oxide	~~Yes~~	1,000
96128	1,2-	Dibromo-3-chloropropane	~~Yes~~	20
96457		Ethylene thiourea	~~No~~	600
98077		Benzotrichloride	~~Yes~~	12
98828		Cumene	~~Yes~~	2,000
98862		Acetophenone	~~Yes~~	1,000
98953		Nitrobenzene	~~Yes~~	1,000
100027	4-	Nitrophenol	~~Yes~~	2,000
100414		Ethyl benzene	~~Yes~~	2,000
100425		Styrene	~~Yes~~	1,000
100447		Benzyl chloride	~~Yes~~	100

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CAS Number	Chemical Name		~~VOC~~	Reporting Level (Lbs/Year)
101144	4,4-	Methylene bis (2-chloroaniline) [8]	~~No~~	200
101688		Methylene diphenyl diisocyanate (MDI) [8]	~~No~~	100
101779	4,4'-	Methylenedianiline	~~No~~	1,000
106423	p-	Xylenes [8]	~~Yes~~	2,000
106445	p-	Cresol [8]	~~Yes~~	1,000
106467	1,4-	Dichlorobenzene(p)	~~Yes~~	1,000
106503	p-	Phenylenediamine	~~Yes~~	2,000
106514		Quinone	~~Yes~~	2,000
106887	1,2-	Epoxybutane	~~Yes~~	1,000
106898		Epichlorohydrin (1-Chloro-2,3-epoxypropane)	~~Yes~~	1,000
106934		Ethylene dibromide (Dibromoethane)	~~Yes~~	100
106990	1,3-	Butadiene	~~Yes~~	70
107028		Acrolein	~~Yes~~	40
107051		Allyl chloride	~~Yes~~	1,000
107062		Ethylene dichloride (1,2-Dichloroethane)	~~Yes~~	1,000
107131		Acrylonitrile	~~Yes~~	300
107211		Ethylene glycol	~~Yes~~	2,000
107302		Chloromethyl methyl ether	~~Yes~~	100
108054		Vinyl acetate	~~Yes~~	1,000
108101		Methyl isobutyl ketone	~~Yes~~	2,000
108316		Maleic anhydride	~~No~~	1,000
108383	m-	Xylenes [8]	~~Yes~~	2,000
108394	m-	Cresol [8]	~~Yes~~	1,000
108864	2-	Methoxy ethanol [8]	~~No~~	2,000
108883		Toluene	~~Yes~~	2,000
108907		Chlorobenzene	~~Yes~~	2,000
108952		Phenol	~~Yes~~	100
110543		Hexane	~~Yes~~	2,000
110805	2-	Ethoxy ethanol [8]	~~No~~	2,000
111422		Diethanolamine	~~Yes~~	2,000
111444		Dichloroethyl ether (Bis(2-chloroethyl)ether)	~~Yes~~	60
114261		Propoxur (Baygon)	~~No~~	2,000
117817		Bis(2-ethylhexyl)phthalate(DEHP)	~~Yes~~	2,000

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CAS Number		Chemical Name	~~VOC~~	Reporting Level (Lbs/Year)
118741		Hexachlorobenzene	~~No~~	20
119904	3,3'-	Dimethoxybenzidine [8]	~~Yes~~	100
119937	3,3'	Dimethyl benzidine [8]	~~Yes~~	16
120809		Catechol	~~Yes~~	2,000
120821	1,2,4-	Trichlorobenzene	~~Yes~~	2,000
121142	2,4-	Dinitrotoluene	~~Yes~~	20
121448		Triethylamine	~~Yes~~	2,000
121697	N,N-	Dimethylaniline	~~Yes~~	1,000
122667	1,2-	Diphenylhydrazine	~~Yes~~	90
123319		Hydroquinone	~~Yes~~	1,000
123386		Propionaldehyde	~~Yes~~	2,000
123911	1,4-	Dioxane (1,4-Diethyleneoxide)	~~Yes~~	2,000
126998		Chloroprene	~~Yes~~	1,000
127184		Tetrachloroethylene (Perchloroethylene)	~~No~~	2,000
130618		Cadmium oxide [8]	~~No~~	20
131113		Dimethyl phthalate	~~Yes~~	2,000
132649		Dibenzofurans [8]	~~No~~	2,000
133062		Captan	~~No~~	2,000
133904		Chloramben	~~No~~	1,000
140885		Ethyl acrylate	~~Yes~~	1,000
151508		Potassium cyanide [8]	~~No~~	100
151564		Ethyleneimine (Aziridine)	~~Yes~~	6
156627		Calcium cyanamide	~~No~~	2,000
189559	1,2:7,8-	Dibenzoppyrene	~~Yes~~	20
193395		Ideno(1,2,3-cd)pyrene	~~Yes~~	20
205992		Benzo(b)fluoranthene	~~Yes~~	20
218019		Chrysene	~~Yes~~	20
225514		Benz(c)aridine	~~Yes~~	20
302012		Hydrazine	~~No~~	8
334883		Diazomethane	~~Yes~~	1,000
463581		Carbonyl sulfide	~~Yes~~	2,000
510156		Chlorobenzilate [8]	~~Yes~~	400
532274	2-	Chloroacetophenone	~~Yes~~	60

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CAS Number	Chemical Name		~~VOC~~	Reporting Level (Lbs/Year)
534521	4,6-	Dinitro-o-cresol, and salts	~~No~~	100
540841	2,2,4-	Trimethylpentane	~~Yes~~	2,000
542756	1,3-	Dichloropropene	~~Yes~~	1,000
542881		Bis(chloromethyl)ether	~~Yes~~	0.6
584849	2,4-	Toluene diisocyanate	~~Yes~~	100
593602		Vinyl bromide (bromoethene)	~~Yes~~	600
624839		Methyl isocyanate	~~Yes~~	100
680319		Hexamethylphosphoramide	~~No~~	20
684935	N-	Nitroso-N-methylurea	~~Yes~~	0
748794		Mercuric chloride [8]	~~No~~	20
822060		Hexamethylene,-1,6-diisocyanate	~~No~~	20
1120714	1,3-	Propane sultone	~~No~~	30
1308389		Trivalent chromium compounds (chromium oxide)	~~No~~	2,000
1309644		Antimony trioxide [8]	~~No~~	1,000
1319773		Cresols/Cresylic acid (isomers and mixture) [8]	~~Yes~~	1,000
1330207		Xylenes (isomers and mixture) [8]	~~Yes~~	2,000
1332214		Asbestos	~~No~~	0
1336363		Polychlorinated biphenyls (Aroclors, PCBs)	~~Yes~~	18
1345046		Antimony trisulfide [8]	~~No~~	100
1582098		Trifluralin	~~No~~	2,000
1634044		Methyl tert butyl ether	~~Yes~~	2,000
1746016	2,3,7,8-	Tetrachlorodibenzo-p-dioxin [8]	~~No~~	0.0012
3547044	p,p'-	Dichlorodiphenyl ethane (DDE) [8]	~~Yes~~	20
7439921		Lead and compounds (except those specifically listed) [5]	~~No~~	20
7439965		Manganese and compounds (except those specifically listed) [5] [8]	~~No~~	800
7439976		Elemental mercury [8]	~~No~~	20
7440020		Nickel compounds (except those specifically listed) [5] [8]	~~No~~	1,000
7440360		Antimony compounds (except those specifically listed) [5] [8]	~~No~~	2,000
7440382		Arsenic and inorganic arsenic compounds [8]	~~No~~	10
7440417		Beryllium compounds (except Beryllium salts) [5]	~~No~~	16

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CAS Number	Chemical Name	~~VOC~~	Reporting Level (Lbs/Year)
	[8]		
7440439	Cadmium compounds (except those specifically listed) [5] [8]	~~No~~	20
7440473	Chromium compounds (exept Hexavalent and Trivalent) [5] [8]	~~No~~	2,000
7440484	Cobalt compounds (except those specifically listed) [5] [8]	~~No~~	100
7488564	Selenium sulfide (mono and di) [8]	~~No~~	100
7550450	Titanium tetrachloride	~~No~~	100
7647010	Hydrochloric acid	~~No~~	2,000
7664393	Hydrogen fluoride (Hydrofluoric acid)	~~No~~	100
7723140	Phosphorous	~~No~~	100
7782492	Selenium and compounds (except those specifically listed) [5] [8]	~~No~~	100
7782505	Chlorine	~~No~~	100
7783075	Hydrogen selenide [8]	~~No~~	100
7783702	Antimony pentafluoride [8]	~~No~~	100
7784421	Arsine [8]	~~No~~	10
7803512	Phosphine	~~No~~	2,000
8001352	Toxaphene (chlorinated camphene)	~~No~~	20
10025737	Chromic chloride	~~No~~	100
10045940	Mercuric nitrate [8]	~~No~~	0
10102188	Sodium selenite [8]	~~No~~	100
10210681	Cobalt carbonyl [8]	~~No~~	100
12035722	Nickel subsulfide [8]	~~No~~	40
12108133	Methylcyclopentadienyl manganese	~~No~~	100
13410010	Sodium selenate [8]	~~No~~	100
13463393	Nickel carbonyl [8]	~~No~~	0
14464461	Silica (crystalline) [8]	~~No~~	0
14807966	Talc (containing asbestos form fibers) [8]	~~No~~	0
18540299	Hexavalent chromium and compounds [8]	~~No~~	4
28300745	Antimony potassium tartrate [8]	~~No~~	1,000
62207765	Fluomine	~~No~~	100
65997173	Glass wool [8]	~~No~~	0

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CAS Number	Chemical Name	~~VOC~~	Reporting Level (Lbs/Year)
66733219	Erionite [8]	~~No~~	0
99999918	Radionuclides (including radon)[4]	~~No~~	[7]
142844006	Ceramic fibers [8]	~~No~~	0
-	Beryllium salts [8]	~~No~~	0.04
-	Cyanide compounds (except those specifically listed) [1] [5] [8]	~~No~~	2,000
-	Coke oven emissions	~~No~~	30
-	Glycol ethers (except those specifically listed) [2] [5] [8]	~~No~~	0
-	Mineral fiber compounds (except those specifically listed) [3] [5] [8]	~~No~~	0
-	Mercury compounds (except those specifically listed) [5] [8]	~~No~~	20
-	Rock wool [8]	~~No~~	0
-	Slag wool [8]	~~No~~	0
-	Polycyclic organic matter-POM (except those specifically listed) [5] [8]	~~Yes~~	20
-	Dioxins & Furans (TCDD equivalent) [6]	~~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.

[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

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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
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