

APPENDIX A

TOXIC AIR CONTAMINANTS



APPENDIX A-1

**CALIFORNIA ARB
TOXIC AIR CONTAMINANT
IDENTIFICATION LIST**

Bay Area Air Quality Management District
2002 Annual Report
June 2004

TOXIC AIR CONTAMINANTS

The substances listed are designated as toxic air contaminants by the California State Air Resources Board under the California Code of Regulations Section 93001.

<u>Toxic Air Contaminant</u>	<u>Toxic Air Contaminant</u>
Acetaldehyde	Cumene
Acetamide	Diazomethane
Acetonitrile	1,2-Dibromo-3-chloropropane
Acetophenone	Dibutyl phthalate
2-Acetylaminofluorene	1,4-Dichlorobenzene(p)
Acrolein	3,3'-Dichlorobenzidine
Acrylamide	Dichlorodipenyldichloroethylene (DDE)
Acrylic acid	Dichloroethyl ether (Bis(2-chloroethyl)ether)
Acrylonitrile	2,4-Dichlorophenoxyacetic acid, (2,4-D) salts and esters
Allyl chloride	1,3-Dichloropropene
4-Aminobiphenyl	Dichlorvos
Aniline	Diethanolamine
o-Anisidine	Diethyl sulfate
Asbestos	N,N-Dimethylaniline
Benzene (including benzene from gasoline)	3,3'-Dimethoxybenzidine
Benzidine	Dimethyl aminoazobenzene
Benzotrichloride	3,3'-Dimethylbenzidine
Benzyl chloride	Dimethyl carbamoyl chloride
Biphenyl	Dimethyl formamide
Bis(2-ethylhexyl)phthalate (DEHP)	1,1-Dimethylhydrazine
Bis(chloromethyl)ether	Dimethyl phthalate
Bromoform	Dimethyl sulfate
1,3-Butadiene	4,6-Dinitro-o-cresol, and salts
Calcium cyanamide	2,4-Dinitrophenol
Caprolactam	2,4-Dinitrotoluene
Captan	1,4-Dioxane (1,4-Diethyleneoxide)
Carbaryl	1,2-Diphenylhydrazine
Carbon disulfide	Epichlorohydrin (1-Chloro-2,3-epoxypropane)
Carbon tetrachloride	1,2-Epoxybutane
Carbonyl sulfide	Ethyl acrylate
Catechol	Ethyl benzene
Chloramben	Ethyl carbamate (Urethane)
Chlordane	Ethyl chloride (Chloroethane)
Chlorinated dioxins and dibenzofurans	Ethylene dibromide (Dibromoethane)
Chlorine	Ethylene dichloride (1,2-Dichloroethane)
Chloroacetic acid	Ethylene glycol
2-Chloroacetophenone	Ethyleneimine (Aziridine)
Chlorobenzene	Ethylene oxide
Chlorobenzilate	Ethylene thiourea
Chloroform	Ethylidene dichloride (1,1-Dichloroethane)
Chloromethyl methyl ether	Formaldehyde
Chloroprene	Heptachlor
Chromium VI	Hexachlorobenzene
Cresols/Cresylic acid (isomers and mixtures)	Hexachlorobutadiene
o-Cresol	Hexachlorocyclopentadiene
m-Cresol	Hexachloroethane
p-Cresol	

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Hexamethylene-1,6-diisocyanate	Propylene dichloride (1,2-Dichloropropane)
Hexamethylphosphoramide	Propylene oxide
Hexane	1,2-Propylenimine (2-Methylaziridine)
Hydrazine	Quinoline
Hydrochloric acid	Quinone
Hydrogen fluoride (Hydrofluoric acid)	Styrene
Hydroquinone	Styrene oxide
Isophorone	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Lindane (all isomers)	1,1,2,2-Tetrachloroethane
Maleic anhydride	Tetrachloroethylene (Perchloroethylene)
Methanol	Titanium tetrachloride
Methoxychlor	Toluene
Methyl bromide (Bromomethane)	2,4-Toluenediamine
Methyl chloride (Chloromethane)	2,4-Toluene diisocyanate
Methyl chloroform (1,1,1-Trichloroethane)	o-Toluidine
Methyl ethyl ketone (2-Butanone)	Toxaphene (chlorinated camphene)
Methyl hydrazine	1,2,4-Trichlorobenzene
Methyl iodide (Iodomethane)	1,1,2-Trichloroethane
Methyl isobutyl ketone (Hexone)	Trichloroethylene
Methyl isocyanate	2,4,5-Trichlorophenol
Methyl methacrylate	2,4,6-Trichlorophenol
Methyl tert-butyl ether (MTBE)	Triethylamine
4,4-Methylene bis(2-chloroaniline)	Trifluralin
Methylene chloride (Dichloromethane)	2,2,4-Trimethylpentane
Methylene diphenyl diisocyanate (MDI)	Vinyl acetate
4,4-Methylenedianiline	Vinyl bromide
Naphthalene	Vinyl chloride
Nitrobenzene	Vinylidene chloride (1,1-Dichloroethylene)
4-Nitrobiphenyl	Xylenes (isomers and mixture)
4-Nitrophenol	o-Xylenes
2-Nitropropane	m-Xylenes
N-Nitroso-N-methylurea	p-Xylenes
N-Nitrosodimethylamine	Antimony compounds
N-Nitrosomorpholine	Arsenic compounds (inorganic including arsine)
Parathion	Beryllium compounds
Particulate matter - diesel IC engine exhaust	Cadmium compounds
Pentachloronitrobenzene (Quintobenzene)	Chromium compounds
Pentachlorophenol	Cobalt compounds
Phenol	Coke oven emissions
p-Phenylenediamine	Cyanide compounds ¹
Phosgene	Glycol ethers ²
Phosphine	Lead compounds
Phosphorus	Manganese compounds
Phthalic anhydride	Mercury compounds
Polychlorinated biphenyls (Aroclors)	Fine mineral fibers ³
1,3-Propane sultone	Nickel compounds
beta-Propiolactone	Polycyclic Organic Matter ⁴
Propionaldehyde	Radionuclides (including radon) ⁵
Propoxur (Baygon)	Selenium compounds

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APPENDIX A-1 NOTES

This List of Substances was established by Titles 17 and 26 of the California Code of Regulations Section 93001.

GENERAL NOTE: For all substances listed which contain the word "compounds" and for glycol ethers, the following applies: Unless otherwise specified, these listings are defined as including any unique chemical substance that contains the named chemical (i.e., antimony, arsenic, etc.) as part of that chemical's infrastructure.

- 1 X'CN where X=H' or any other group where a formal dissociation may occur.
For example KCN or Ca(CN)₂
- 2 includes 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.
- 3 includes 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.
- 4 includes organic compounds with more than one benzene ring, and which have a boiling point greater than or equal to 100°C.
- 5 a type of atom which spontaneously undergoes radioactive decay.