

APPENDIX A

TOXIC AIR CONTAMINANTS

APPENDIX A-1

**CALIFORNIA ARB
TOXIC AIR CONTAMINANT
IDENTIFICATION LIST**

Bay Area Air Quality Management District
1999 Annual Report
December 2000

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

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

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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
 $(R(OCH_2CH_2)_n-OR')$ 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
 $R(OCH_2CH)_n-OH$. 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.