

APPENDIX A
TOXIC AIR CONTAMINANTS

APPENDIX A-1

**CALIFORNIA ARB
TOXIC AIR CONTAMINANT
IDENTIFICATION LIST**

Bay Area Air Quality Management District
2003 Annual Report

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.

Toxic Air Contaminant

Acetaldehyde
Acetamide
Acetonitrile
Acetophenone
2-Acetylaminofluorene
Acrolein
Acrylamide
Acrylic acid
Acrylonitrile
Allyl chloride
4-Aminobiphenyl
Aniline
o-Anisidine
Asbestos
Benzene (including benzene from gasoline)
Benzidine
Benzotrichloride
Benzyl chloride
Biphenyl
Bis(2-ethylhexyl)phthalate (DEHP)
Bis(chloromethyl)ether
Bromoform
1,3-Butadiene
Calcium cyanamide
Caprolactam
Captan
Carbaryl
Carbon disulfide
Carbon tetrachloride
Carbonyl sulfide
Catechol
Chloramben
Chlordane
Chlorinated dioxins and dibenzofurans
Chlorine
Chloroacetic acid
2-Chloroacetophenone
Chlorobenzene
Chlorobenzilate
Chloroform
Chloromethyl methyl ether
Chloroprene
Chromium VI
Cresols/Cresylic acid (isomers and mixtures)
o-Cresol
m-Cresol
p-Cresol

Toxic Air Contaminant

Cumene
Diazomethane
1,2-Dibromo-3-chloropropane
Dibutyl phthalate
1,4-Dichlorobenzene(p)
3,3'-Dichlorobenzidine
Dichlorodiphenyldichloroethylene (DDE)
Dichloroethyl ether (Bis(2-chloroethyl)ether)
2,4-Dichlorophenoxyacetic acid, (2,4-D)
salts and esters
1,3-Dichloropropene
Dichlorvos
Diethanolamine
Diethyl sulfate
N,N-Dimethylaniline
3,3'-Dimethoxybenzidine
Dimethyl aminoazobenzene
3,3'-Dimethylbenzidine
Dimethyl carbamoyl chloride
Dimethyl formamide
1,1-Dimethylhydrazine
Dimethyl phthalate
Dimethyl sulfate
4,6-Dinitro-o-cresol, and salts
2,4-Dinitrophenol
2,4-Dinitrotoluene
1,4-Dioxane (1,4-Diethyleneoxide)
1,2-Diphenylhydrazine
Epichlorohydrin (1-Chloro-2,3-epoxypropane)
1,2-Epoxybutane
Ethyl acrylate
Ethyl benzene
Ethyl carbamate (Urethane)
Ethyl chloride (Chloroethane)
Ethylene dibromide (Dibromoethane)
Ethylene dichloride (1,2-Dichloroethane)
Ethylene glycol
Ethyleneimine (Aziridine)
Ethylene oxide
Ethylene thiourea
Ethylidene dichloride (1,1-Dichloroethane)
Formaldehyde
Heptachlor
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane

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<u>Toxic Air Contaminant</u>	<u>Toxic Air Contaminant</u>
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.