

Substance

About Our Work Resources Business Assistance Rulemaking News

Threshold Determination

Toxic Air Contaminant Identification List

This page last reviewed July 18, 2011

This page provides information on substances identified as California toxic air contaminants.

Title 17, CCR, § 93000. Substances Identified As Toxic Air Contaminants.

Each substance identified in this section has been determined by the State Board to be a toxic air contaminant as defined in Health and Safety Code section 39655. If the State Board has found there to be a threshold exposure level below which no significant adverse health effects are anticipated from exposure to the identified substance, that level is specified as the threshold determination. If the Board has found there to be no threshold exposure level below which no significant adverse health effects are anticipated from exposure to the identified substance, a determination of "no threshold" is specified. If the Board has found that there is not sufficient available scientific evidence to support the identification of a threshold exposure level, the "Threshold" column specifies "None identified."

Capataneo	THI COTTOIN DOLOTTIMINGTON
Benzene (C ₆ H ₆)	None identified
Ethylene Dibromide (BrCH ₂ CH ₂ Br; 1,2-dibromoethane)	None identified
Ethylene Dichloride (CICH ₂ CH ₂ CI; 1,2-dichloroethane)	None identified
Hexavalent chromium (Cr (VI))	None identified
Asbestos [asbestiform varieties of serpentine (chrysotile), riebeckite (crocidolite),cummingtonite-grunerite (amosite), tremolite, actinolite, and anthophyllite]	None identified
Dibenzo-p-dioxins and Dibenzofurans chlorinated in the 2,3,7 and 8 positions and containing 4,5,6 or 7 chlorine atoms	None identified
Cadmium (metallic cadmium and cadmium compounds)	None identified
Carbon Tetrachloride(CCI ₄ ; tetrachloromethane)	None identified
Ethylene Oxide (1,2-epoxyethane)	None identified
Methylene Chloride (CH ₂ Cl ₂ ; Dichloromethane)	None identified
Trichloroethylene (CCl₂CHCl; Trichloroethene)	None identified

None identified Chloroform (CHCl₃) Vinyl chloride (C₂H₃Cl; Chloroethylene) None identified None identified Inorganic Arsenic Nickel (metallic nickel and inorganic nickel compounds) None identified Perchloroethylene (C₂Cl₄; Tetrachloroethylene) None identified Formaldehyde (HCHO) None identified 1,3-Butadiene (C₄H₆) None identified None identified Inorganic Lead Particulate Emissions from Diesel-Fueled Engines None identified Environmental Tobacco Smoke None identified

Note: Authority cited: Sections 39600, 39601 and 39662, Health and Safety Code. Reference: Sections 39650, 39660, 39661 and 39662, Health and Safety Code.

HISTORY

- 1. New section filed 9-23-85; effective thirtieth day thereafter (Register 85, No. 39). For history of former subchapter 7, see Registers 84, No. 10; 83, No. 2; 81, No. 48; 77, No. 12; and 74, No. 47.
- 2. Amendment filed 1-14-86; effective thirtieth day thereafter (Register 86, No. 3).
- 3. Amendment filed 2-10-86; effective thirtieth day thereafter (Register 86, No. 7).
- 4. Amendment filed 10-9-86; effective thirtieth day thereafter (Register 86, No. 43).
- 5. Amendment filed 11-25-86; effective thirtieth day thereafter (Register 86, No. 48).
- 6. Amendment filed 2-23-87; effective thirtieth day thereafter (Register 87, No. 9).
- 7. Amendment filed 10-8-87; operative 11-7-87 (Register 87, No. 43).
- 8. Amendment filed 3-15-88; operative 4-14-88 (Register 88, No. 13).
- 9. Amendment filed 7-22-88; operative 8-21-88 (Register 88, No. 31).
- Amendment adding Methylene Chloride filed 6-7-90; operative 7-7-90 (Register 90, No. 30).
- 11. Amendment adding Trichloroethylene filed 2-27-91; operative 3-29-91 (Register 91, No. 13).
- 12. Amendment adding Vinyl chloride filed 5-10-91; operative 6-9-91 (Register 91, No. 25).
- 13. Editorial correction, including removal of Inorganic arsenic (Register 91, No. 25).

- 14. Amendment adding Chloroform filed 5-10-91; operative 6-9-91 (Register 91, No. 25).
- 15. Amendment adding Inorganic Arsenic filed 6-6-91; operative 7-6-91 (Register 91, No. 26).
- 16. Change without regulatory effect amending Trichloroethylene and adding Nickel filed 7-14-92 pursuant to section 100, title 1, California Code of Regulations (Register 92, No. 29).
- 17. Amendment adding Perchloroethylene filed 10-2-92; operative 11-1-92 (Register 92, No. 40).
- 18. Amendment adding Formaldehyde filed 3-2-93; operative 4-1-93 (Register 93, No. 10).
- 19. Amendment adding 1,3-Butadiene filed 4-14-93; operative 5-14-93 (Register 93, No. 16).
- 20. Editorial correction (Register 98, No. 16).
- 21. Amendment adding inorganic lead filed 4-14-98; operative 5-14-98 (Register 98, No. 16).
- 22. Amendment adding "Particulate Emissions from Diesel-Fueled Engines" filed 7-21-99; operative 8-20-99 (Register 99, No. 30).
- 23. Amendment adding "Environmental Tobacco Smoke" filed 1-9-2007; operative 2-8-2007 (Register 2007, No. 2).

Title 17, CCR, § 93001. Hazardous Air Pollutants Identified as Toxic Air Contaminants

Each substance listed in this section has been identified as a hazardous air pollutant pursuant to subsection (b) of Section 112 of the federal Clean Air Act (42 U.S.C. Section 7412(b)) and has been designated by the State Board to be a toxic air contaminant pursuant to Health and Safety Code Section 39657.

Substance

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

Chlorine

Chloroacetic acid

2-Chloroacetophenone

Chlorobenzene

Chlorobenzilate

Chloroform

Chloromethyl methyl ether

Chloroprene

Cresols/Cresylic acid (isomers and mixture)

o-Cresol

m-Cresol

p-Cresol

Cumene

2,4-D, salts and esters

DDE

Diazomethane

Dibenzofurans

1,2-Dibromo-3-chloropropane

Dibutylphthalate

1,4-Dichlorobenzene (p)

3,3-Dichlorobenzidene

Dichloroethyl ether (Bis (2-chloroethyl) ether)

1,3-Dichloropropene

Dichlorvos

Diethanolamine

N.N-Diethyl aniline (N.N-Dimethylaniline)

Diethyl sulfate

3,3-Dimethoxybenzidine

Dimethyl aminoazobenzene

3,3-Dimethyl benzidine

Dimethyl carbamoyl chloride

Dimethyl formamide

1,1-Dimethyl hydrazine

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

Ethylene imine (Aziridine)

Ethylene oxide

Ethylene thiourea

Ethylidene dichloride (1,1-Dichloroethane)

Formaldehyde

Heptachlor

Hexachlorobenzene

Hexachlorobutadiene

Hexachlorocyclopentadiene

Hexachloroethane

Hexamethylene-1,6-diisocyanate

Hexamethylphosphoramide

Hexane

Hydrazine

Hydrochloric acid

Hydrogen fluoride (Hydrofluoric acid)

Hydroquinone

Isophorone

Lindane (all isomers)

Maleic anhydride

Methanol

Methoxychlor

Methyl bromide (Bromomethane)

Methyl chloride (Chloromethane)

Methyl chloroform (1,1,1-Trichloroethane)

Methyl ethyl ketone (2-Butanone)

Methyl hydrazine

Methyl iodide (Iodomethane)

Methyl isobutyl ketone (Hexone)

Methyl isocyanate

Methyl methacrylate

Methyl tert butyl ether

4,4-Methylene bis(2-chloroaniline)

Methylene chloride (Dichloromethane)

Methylene diphenyl diisocyanate (MDI)

4,4-Methylenedianiline

Naphthalene

Nitrobenzene

4-Nitrobiphenyl

4-Nitrophenol

2-Nitropropane

N-Nitroso-N-methylurea

N-Nitrosodimethylamine

N-Nitrosomorpholine

Parathion

Pentachloronitrobenzene (Quintobenzene)

Pentachlorophenol

Phenol

p-Phenylenediamine

Phosgene

Phosphine

Phosphorus

Phthalic anhydride

Polychlorinated biphenyls (Aroclors)

1,3-Propane sultone

beta-Propiolactone

Propionaldehyde

Propoxur (Baygon)

Prophylene dichloride (1,2-Dichloropropane)

Propylene oxide

1,2-Propylenimine (2-Methylaziridine)

Quinoline

Quinone

Styrene

Styrene oxide

2,3,7,8-Tetrachlorodibenzo-p-dioxin

1,1,2,2-Tetrachloroethane

Tetrachloroethylene (Perchloroethylene)

Titanium tetrachloride

Toluene

2,4-Toluene diamine

2,4-Toluene diisocyanate

o-Toluidine

Toxaphene (chlorinated camphene)

1,2,4-Trichlorobenzene

1,1,2-Trichloroethane

Trichloroethylene

2,4,5-Trichlorophenol

2,4,6-Trichlorophenol

Triethylamine

Trifluralin

2,2,4-Trimethylpentane

Vinyl acetate

Vinyl bromide

Vinyl chloride

Vinylidene chloride (1,1-Dichloroethylene)

Xylenes (isomers and mixture)

o-Xylenes

m-Xylenes

p-Xylenes

Antimony Compounds

Arsenic Compounds (inorganic including arsine)

Beryllium Compounds

Cadmium Compounds

Chromium Compounds

Cobalt Compounds

Coke Oven Emissions

Cyanide Compounds [FN1]

Glycol ethers [FN2]

Lead Compounds

Manganese Compounds

Mercury Compounds

Fine mineral fibers [FN3]

Nickel Compounds

Polycyclic Organic Matter [FN4]

Radionuclides (including radon) [FN5]

Selenium Compounds

Note: For all listing above 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.

[FN1] X'CN where X = H' or any other group where a formal dissociation may occur. For example KCN or $Ca(CN)_2$

[FN2] includes mono- and di-ethers of ethylene glycol, diethylene glycol, and triethylene glycol (R (OCH $_2$ CH $_2$) $_n$ -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(OCH₂CH)n -OH. Polymers are excluded from the glycol category.

[FN3] 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.

[FN4] includes organic compounds with more than one benzene ring, and which have a boiling point greater than or equal to 100 degrees °C

[FN5] a type of atom which spontaneously undergoes radioactive decay.

Note: Authority cited: Sections 39657, 39600, 39601 and 39662, Health and Safety Code. Reference: Sections 39650, 39655, 39656, 39657, 39658, 39659, 39660, 39661 and 39662, Health and Safety Code.

HISTORY

1. New section filed 3-9-94; operative 4-8-94. Submitted to OAL for printing only (Register 94, No. 10).

17 CCR § 93001, 17 1CAC

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CONTACT US



(800) 242-4450 | helpline@arb.ca.gov 1001 | Street, Sacramento, CA 95814 P.O. Box 2815, Sacramento, CA 95812 ACCESSIBILITY
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