

California Environmental Contaminant Biomonitoring Program (CECBP)
Priority Chemicals
March 2009

The following is a list of priority chemicals for the California Environmental Contaminant Biomonitoring Program (CECBP). Priority chemicals are the subset of designated chemicals that were recommended by the Scientific Guidance Panel (SGP) as priorities for biomonitoring in California. Biomonitoring of these chemicals will involve either measuring the parent compound or a target compound, as determined by the CECBP. Per SGP recommendation, the CECBP will determine the most appropriate target compound(s) to measure in order to evaluate the priority chemical in individuals tested.

Metals¹

Cadmium
Lead
Mercury
Arsenic

Phthalates¹

Dimethyl phthalate (DMP)
Diethyl phthalate (DEP)
Dibutyl phthalate (DBP)
Benzylbutyl phthalate (BzBP)
Dicyclohexyl phthalate (DCHP)
Di-2-ethylhexyl phthalate (DEHP)
Di-n-octyl phthalate (DOP)
Di-isononyl phthalate (DiNP)

Organophosphate Insecticides: Dialkyl Phosphate Metabolites and Specific Metabolites¹

Acephate
Azinphos Methyl
Chlorethoxyphos
Chlorpyrifos
Chlorpyrifos Methyl
Coumaphos
Diazinon
Dichlorvos (DDVP)
Dicrotophos
Dimethoate
Disulfoton
Ethion
Fenitrothion
Fenthion
Isazophos-methyl
Malathion
Methamidophos
Methidathion
Methyl parathion

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Naled
Oxydemeton-methyl
Parathion
Phorate
Phosmet (Imidan)
Pirimiphos-methyl
Sulfotepp
Temephos
Terbufos
Tetrachlorvinphos

Diesel Exhaust²

Tobacco Smoke
Cotinine

Polycyclic Aromatic Hydrocarbons¹

6-Hydroxychrysene
3-Hydroxyphenanthrene
3-Hydroxybenzo[a]pyrene

Pyrethroid Pesticides¹

Allethrin
Cyfluthrin
Cypermethrin
cis-Cypermethrin
trans-Cypermethrin
Deltamethrin
Permethrin
cis-Permethrin
trans-Permethrin
Pyrethrin 1
Resmethrin

Environmental Phenols¹

Bisphenol A
2,4,4'-Trichloro-2'-hydroxyphenyl ether (Triclosan)

Brominated and Chlorinated Organic Compounds Used as Flame Retardants (including but not limited to)³

1,2-Bis(2,4,6-tribromophenoxy)ethane (BTBPE)
1,2-Dibromo-4-(1,2-dibromoethyl)cyclohexane (TBECH)
2, 4, 6-Tribromophenol
2,2-Bis(bromomethyl)-1,3-propanediol

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2,2-Bis(chloromethyl)trimethylene bis[bis(2-chloroethyl)phosphate]
2,3-Dibromopropyl-2,4,6-tribromophenyl ether (DPTE)
2-Ethyl-1-hexyl-2,3,4,5-tetrabromobenzoate (TBB)
Bis(2-ethyl-1-hexyl) tetrabromophthalate (TBPH)
Bis(2-hydroxyethyl ether) TBBPA
Bis(hexachlorocyclopentadieno)cyclooctane (Dechlorane Plus)
Chlorendic acid
Decabromodiphenylethane (DBDPE)
Hexabromobenzene (HBB)
Hexabromocyclododecane (HBCD)
Hexachlorocyclopentadienyl-dibromocyclooctane
N-N-Ethylene-bis(tetrabromophthalimide)
Pentabromoethylbenzene (PBEB)
Pentabromotoluene (PBT)
Short-chain chlorinated paraffins
Tetrabromobisphenol A (TBBPA)
Tetrabromobisphenol A bis(2,3)dibromopropyl ether
Tetrabromophthalic anhydride
Tetrakis(2-chloroethyl)dichloroisopentyldiphosphate
Tris(1,3-dichloro-2-propyl)phosphate
Tris(1-chloro-2-propyl)phosphate (TCPP)
Tris(2,3-dichloro-1-propyl)phosphate
Tris(2-chloroethyl)phosphate

Polybrominated Diphenyl Ethers (PBDEs)⁴

2,2',4'-Tribromodiphenyl ether (BDE 17)
2,4,4'-Tribromodiphenyl ether (BDE 28)
2,2',4,4'-Tetrabromodiphenyl ether (BDE 47)
2,3',4,4'-Tetrabromodiphenyl ether (BDE 66)
2,2',3,4,4'-Pentabromodiphenyl ether (BDE 85)
2,2',4,4',5'-Pentabromodiphenyl ether (BDE 99)
2,2',4,4',6'-Pentabromodiphenyl ether (BDE 100)
2,2',4,4',5,5'-Hexabromodiphenyl ether (BDE 153)
2,2',4,4',5,6'-Hexabromodiphenyl ether (BDE 154)
2,2',3,4,4',5',6'-Heptabromodiphenyl ether (BDE 183)
2,2',4,4',5,5'-Hexabromobiphenyl (BB 153)

Other Chemicals

Perchlorate

Notes

¹ All members of the chemical class are not priority chemicals; only the specific chemicals listed are priority chemicals.

² All components of diesel exhaust are priority chemicals.

³ All members of the chemical class are priority chemicals, including but not limited to, the chemicals shown.

⁴ PBDEs are members of the priority class "brominated and chlorinated organic compounds used as flame retardants."