

NIOSH CARCINOGEN LIST

In addition to the known OSHA 13 carcinogens listed in the Chemical Hygiene Plan, the following is a list of substances NIOSH considers to be potential occupational carcinogens. Refer to the NIOSH website link for a full reference of each chemical's known or suspected toxicity: [CDC - NIOSH Pocket Guide to Chemical Hazards \(NPG\) Appendix A](#).

A number of the carcinogen classifications deal with groups of substances: aniline and homologs, chromates, dinitrotoluenes, arsenic and inorganic arsenic compounds, beryllium and beryllium compounds, cadmium compounds, nickel compounds, and crystalline forms of silica. There are also substances of variable or unclear chemical makeup that are considered carcinogens, coal tar pitch volatiles, coke oven emissions, diesel exhaust and environmental tobacco smoke.

Some of the potential carcinogens listed in this index may be re-evaluated by NIOSH as new data become available and the NIOSH recommendations on these carcinogens either as to their status as a potential occupational carcinogen or as to the appropriate recommended exposure limit may change.

A

Acetaldehyde

2-Acetylaminofluorene

Acrylamide

Acrylonitrile

Aldrin

4-Aminodiphenyl

Amitrole

Aniline and homologs

o-Anisidine

p-Anisidine

Arsenic and inorganic arsenic compounds

Arsine

Asbestos

Asphalt fumes

B

Benzene

Benzidine

Benzidine-based dyes

Beryllium

Butadiene

tert-Butyl Chromate; class, chromium hexavalent

Cadmium dust and fume

Captafol

Captan

Carbon black (exceeding 0.1% PAHs)

Carbon tetrachloride

Chlordane
Chlorinated camphene
Chlorodiphenyl (42% chlorine); class polychlorinated biphenyls
Chlorodiphenyl (54% chlorine); class polychlorinated biphenyls
Chloroform
Chloromethyl methyl ether
bis(Chloromethyl) ether
B-Chloroprene
Chromium, hexavalent [Cr(VI)]
Chromyl chloride; class, chromium hexavalent
Chrysene
Coal tar pitch volatiles;
Coal tar products or Coke Oven emissions

D_{DT}(dichlorodiphenyltrichloroethane)

Di-2-ethylhexyl phthalate (DEHP)
2,4-Diaminoanisoleo
o-Dianisidine-based dyes
1,2-Dibromo-3-chloropropane (DBCP)
Dichloroacetylene
p-Dichlorobenzene
3,3'-Dichlorobenzidine
Dichloroethyl ether
1,3-Dichloropropene
Dieldrin
Diesel Exhaust
Diglycidyl ether (DGE); class, glycidyl ethers
4-Dimethylaminoazobenzene
Dimethyl carbomoyl chloride
1,1-Dimethylhydrazine; class, hydrazines
Dimethyl sulfate
Dinitrotoluene
Dioxane

Environmental tobacco smoke

Epichlorohydrin
Ethyl acrylate
Ethylene dibromide
Ethylene dichloride
Ethylene oxide
Ethylene imine
Ethylene thiourea

Formaldehyde

Gallium arsenide

Gasoline

Heptachlor

Hexachlorobutadiene
Hexachloroethane
Hexamethyl phosphoric triamide (HMPA)
Hydrazine

Kepone

Malonaldehyde

Methoxychlor
Methyl bromide; class, monohalomethanes
Methyl chloride
Methylhydrazine
Methyl iodide; class, monohalomethanes
Methyl hydrazine; class, hydrazines
4,4'-Methylenebis(2-chloroaniline) (MBOCA)
Methylene chloride
4,4-Methylenedianiline (MDA)

a-**N**aphylamine

B-Naphylamine
Nickel, metal, soluble, insoluble, and inorganic; class, nickel, inorganic
Nickel carbonyl
Nickel sulfide roasting
4-Nitrobiphenyl
p-Nitrochlorobenzene
2-Nitronaphthalene
2-Nitropropane
*NN*Nitrosodimethylamine

Pentachloroethane; class, chloroethanes

*N*Phenyl-*b*-naphthylamine; class, *b*-naphthalene
Phenyl glycidyl ether; class, glycidyl ethers
Phenylhydrazine; class, hydrazines
Propane Sultone
B-Propiolactone
Propylene dichloride
Propylene imine
Propylene oxide

Radon

Rosin core solder, pyrolysis products (containing formaldehyde)

Silica, crystalline cristobalite

Silica, crystalline quartz

Silica, crystalline tripoli

Silica, crystalline tridymite

silica, fused

Soapstone, total dust silicates

Trémolite silicates

2,3,7,8-Tetrachlorodibenzo-*p*-dioxin (TCDD) (dioxin)

1,1,2,2-Tetrachloroethane

Tetrachloroethylene

Titanium dioxide

o-Tolidine-based dyes

o-Tolidine

Toluene diisocyanate (TDI)

Toluene diamine (TDA)

o-Toluidine

p-Toluidine

1,1,2-Trichloroethane; class, chloroethanes

Trichloroethylene

1,2,3-Trichloropropane

Uranium, insoluble compounds Uranium, soluble compounds

Vinyl bromide; class, vinyl halides

Vinyl chloride

Vinyl cyclohexene dioxide

Vinylidene chloride (1,1-dichloroethylene); class, vinyl halides)

Welding fumes, total particulates

Wood dust

Zinc chromate; class, chromium hexavalent

Source: [NLM Carcinogen Database Search](#)