The following is a list of substances NIOSH considers to be potential occupational carcinogens. 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

Aetaldehyde
2-Acetylaminofluorene
Acrylamide
Acrylonitrile
Aldrin
4-Aminodiphenyl
Amitrole
Aniline and homologs
o-Anisidine
p-Anisidine
Arsenic and inorganic arsenic compounds
Arsine
Asbestos
Asphalt fumes
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; class, coal tar products
Coke oven emissions

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D

DDT (dichlorodiphenyltrichloroethane)
Di-2-ethylhexyl phthalate (DEHP)
2,4-Diaminoanisole
o-Diaminosidine-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 carbamoyl chloride
1,1-Dimethylhydrazine; class, hydrazines
Dimethyl sulfate
Dinitrotoluene
Dioxane

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E-G

Environmental tobacco smoke
Epichlorohydrin
Ethyl acrylate
Ethylene dibromide
Ethylene dichloride
Ethylene oxide
Ethyleneimine
Ethylene thiourea
Formaldehyde
Gallium arsenide
Gasoline

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H-K

Heptachlor
Hexachlorobutadiene
Hexachloroethane
Hexamethyl phosphoric triamide (HMPA)
Hydrazine
Kepone

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M

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

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N

a-Naphylamine
B-Naphylamine
Nickel, metal, soluble, insoluble, and inorganic; class, nickel, inorganic
Nickel carbonyl
Nickel sulfide roasting
4-Nitro biphenyl
p-Nitrochlorobenzene
2-Nitronaphthalene
2-Nitropropane
N-Nitrosodimethylamine

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P

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

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R-S

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

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T

Tremolite 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
U-Z

Uranium, insoluble compounds
Uranium, soluble compounds
Vinyl bromide; class, vinyl halides
Vinyl chloride
Vinyl cylohexene dioxide
Vinylidene chloride (1,1-dichloroethylene); class, vinyl halides
Welding fumes, total particulates
Wood dust
Zinc chromate; class, chromium hexavalent

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