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National Institute for  
Occupational Safety and Health

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## NIOSH CARCINOGEN LIST

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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](#) [B](#) [C](#) [D](#) [E-G](#) [H-K](#) [M](#) [N](#) [P](#) [R-S](#) [T](#) [U-Z](#)

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

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Benzene  
 Benzidine  
 Benzidine-based dyes  
 Beryllium  
 Butadiene

*tert*-Butyl chromate; class, chromium hexavalent

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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; class, coal tar products

Coke oven emissions

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DDT (dichlorodiphenyltrichloroethane)

Di-2-ethylhexyl phthalate (DEHP)

2,4-Diaminoanisole

*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

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

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Heptachlor  
Hexachlorobutadiene  
Hexachloroethane  
Hexamethyl phosphoric triamide (HMPA)  
Hydrazine  
Kepone

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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)

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

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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

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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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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

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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

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