

## 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**cetaldehyde

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**enzene

Benzidine

Benzidine-based dyes

Beryllium

Butadiene

*tert*-Butyl **C**hromate; class, chromium hexavalent

Cadmium dust and fume

Captan

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-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

**E**nvironmental tobacco smoke  
Epichlorohydrin  
Ethyl acrylate  
Ethylene dibromide  
Ethylene dichloride  
Ethylene oxide  
Ethyleneimine  
Ethylene thiourea

**F**ormaldehyde

**G**allium arsenide

Gasoline

## Heptachlor

Hexachlorobutadiene

Hexachloroethane

Hexamethyl phosphoric triamide (HMPA)

Hydrazine

## Kepon

## 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*-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

## 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)

**S**ilica, crystalline cristobalite

Silica, crystalline quartz

Silica, crystalline tripoli

Silica, crystalline tridymite

silica, fused

Soapstone, total dust silicates

**T**remolite silicates

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

1,1,2,2-Tetrachloroethane

Tetrachloroethylene

Titanium dioxide

$\alpha$ -Tolidine-based dyes

$\alpha$ -Tolidine

Toluene diisocyanate (TDI)

Toluene diamine (TDA)

$\alpha$ -Toluidine

*p*-Toluidine

1,1,2-Trichloroethane; class, chloroethanes

Trichloroethylene

1,2,3-Trichloropropane

**U**ranium, insoluble compounds Uranium, soluble compounds

**V**inyl bromide; class, vinyl halides

Vinyl chloride

Vinyl cyclohexene dioxide

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

**W**elding fumes, total particulates

Wood dust

**Z**inc chromate; class, chromium hexavalent

Source: [NLM Carcinogen Database Search](#)