

APPENDIX 8.2.8.2 – NTP Listed Carcinogen

Substances Listed in the Fourteenth Report on Carcinogens

CLASS 1 - Known To Be Human Carcinogens

Aflatoxins

Alcoholic Beverage Consumption

4-Aminobiphenyl

Analgesic Mixtures Containing Phenacetin (see Phenacetin and Analgesic Mixtures Containing Phenacetin)

Aristolochic Acids

Arsenic and Inorganic Arsenic Compounds

Asbestos

Azathioprine

Benzene

Benzidine (see Benzidine and Dyes Metabolized to Benzidine)

Beryllium and Beryllium Compounds

Bis(chloromethyl) Ether and Technical-Grade Chloromethyl Methyl Ether

1,3-Butadiene

1,4-Butanediol Dimethanesulfonate

Cadmium and Cadmium Compounds

Chlorambucil

1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosourea (see Nitrosourea Chemotherapeutic Agents)

Chromium Hexavalent Compounds

Coal Tars and Coal-Tar Pitches

Coke-Oven Emissions

Cyclophosphamide

Cyclosporin A

Diethylstilbestrol

Dyes Metabolized to Benzidine (Benzidine Dye Class) (see Benzidine and Dyes Metabolized to Benzidine)

Epstein-Barr Virus (see Viruses: Eight Listings)

Erionite

Estrogens, Steroidal

Ethylene Oxide

Formaldehyde

Hepatitis B Virus (see Viruses: Eight Listings)

Hepatitis C Virus (see Viruses: Eight Listings)

Human Immunodeficiency Virus Type 1 (see Viruses: Eight Listings)

Human Papillomaviruses: Some Genital-Mucosal Types (see Viruses: Eight Listings)

Human T-Cell Lymphotropic Virus Type 1 (see Viruses: Eight Listings)

Kaposi Sarcoma–Associated Herpesvirus (see Viruses: Eight Listings)

Melphalan

Merkel Cell Polyomavirus (see Viruses: Eight Listings)

Methoxsalen with Ultraviolet A Therapy

Mineral Oils: Untreated and Mildly Treated

Mustard Gas

2-Naphthylamine

Neutrons (see Ionizing Radiation)

Nickel Compounds (see Nickel Compounds and Metallic Nickel)

Radon (see Ionizing Radiation)

Silica, Crystalline (Respirable Size)
 Solar Radiation (see Ultraviolet Radiation Related Exposures)
 Soots
 Strong Inorganic Acid Mists Containing Sulfuric Acid
 Sunlamps or Sunbeds, Exposure to (see Ultraviolet Radiation Related Exposures)
 Tamoxifen
 2,3,7,8-Tetrachlorodibenzo-p-dioxin
 Thiotepa
 Thorium Dioxide (see Ionizing Radiation)
 Tobacco Smoke, Environmental (see Tobacco-Related Exposures)
 Tobacco Smoking (see Tobacco-Related Exposures)
 Tobacco, Smokeless (see Tobacco-Related Exposures)
 o-Toluidine
 Trichloroethylene
 Ultraviolet Radiation, Broad-Spectrum (see Ultraviolet Radiation Related Exposures)
 Vinyl Chloride (see Vinyl Halides [selected])
 Wood Dust
 X-Radiation and Gamma Radiation (see Ionizing Radiation)

CLASS 2 - Reasonably Anticipated To Be Human Carcinogens

Acetaldehyde
 2-Acetylaminofluorene
 Acrylamide
 Acrylonitrile
 Adriamycin
 2-Aminoanthraquinone
 o-Aminoazotoluene
 1-Amino-2,4-dibromoanthraquinone
 2-Amino-3,4-dimethylimidazo[4,5-f]quinoline (see Heterocyclic Amines [Selected])
 2-Amino-3,8-dimethylimidazo[4,5-f]quinoxaline (see Heterocyclic Amines [Selected])
 1-Amino-2-methylantraquinone
 2-Amino-3-methylimidazo[4,5-f]quinoline (see Heterocyclic Amines [Selected])
 2-Amino-1-methyl-6-phenylimidazo[4,5-b]pyridine (see Heterocyclic Amines [Selected])
 Amitrole
 o-Anisidine and Its Hydrochloride
 Azacitidine
 Basic Red 9 Monohydrochloride
 Benz[a]anthracene (see Polycyclic Aromatic Hydrocarbons: 15 Listings)
 Benzo[b]fluoranthene (see Polycyclic Aromatic Hydrocarbons: 15 Listings)
 Benzo[j]fluoranthene (see Polycyclic Aromatic Hydrocarbons: 15 Listings)
 Benzo[k]fluoranthene (see Polycyclic Aromatic Hydrocarbons: 15 Listings)
 Benzo[a]pyrene (see Polycyclic Aromatic Hydrocarbons: 15 Listings)
 Benzotrichloride
 2,2-Bis(bromomethyl)-1,3-propanediol (Technical Grade)
 Bis(chloroethyl) Nitrosourea (see Nitrosourea Chemotherapeutic Agents)
 Bromodichloromethane
 1-Bromopropane
 Butylated Hydroxyanisole
 Captafol

Carbon Tetrachloride
Ceramic Fibers (Respirable Size)
Chloramphenicol
Chlorendic Acid
Chlorinated Paraffins (C12, 60% Chlorine)
Chloroform
1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea (see Nitrosourea Chemotherapeutic Agents)
3-Chloro-2-methylpropene
4-Chloro-o-phenylenediamine
Chloroprene
p-Chloro-o-toluidine and Its Hydrochloride
Chlorozotocin (see Nitrosourea Chemotherapeutic Agents)
Cisplatin
Cobalt and Cobalt Compounds That Release Cobalt Ions In Vivo (see Cobalt-Related Exposures)
Cobalt–Tungsten Carbide: Powders and Hard Metals (see Cobalt-Related Exposures)
p-Cresidine
Cumene
Cupferron
Dacarbazine
Danthron
2,4-Diaminoanisole Sulfate
2,4-Diaminotoluene
Diazoaminobenzene
Dibenz[a,h]acridine (see Polycyclic Aromatic Hydrocarbons: 15 Listings)
Dibenz[a,j]acridine (see Polycyclic Aromatic Hydrocarbons: 15 Listings)
Dibenz[a,h]anthracene (see Polycyclic Aromatic Hydrocarbons: 15 Listings)
7H-Dibenzo[c,g]carbazole (see Polycyclic Aromatic Hydrocarbons: 15 Listings)
Dibenzo[a,e]pyrene (see Polycyclic Aromatic Hydrocarbons: 15 Listings)
Dibenzo[a,h]pyrene (see Polycyclic Aromatic Hydrocarbons: 15 Listings)
Dibenzo[a,i]pyrene (see Polycyclic Aromatic Hydrocarbons: 15 Listings)
Dibenzo[a,l]pyrene (see Polycyclic Aromatic Hydrocarbons: 15 Listings)
1,2-Dibromo-3-chloropropane
1,2-Dibromoethane
2,3-Dibromo-1-propanol
1,4-Dichlorobenzene
3,3'-Dichlorobenzidine and Its Dihydrochloride
Dichlorodiphenyltrichloroethane
1,2-Dichloroethane
Dichloromethane
1,3-Dichloropropene (Technical Grade)
Diepoxybutane
Diesel Exhaust Particulates
Di(2-ethylhexyl) Phthalate
Diethyl Sulfate
Diglycidyl Resorcinol Ether
3,3'-Dimethoxybenzidine (see 3,3'-Dimethoxybenzidine and Dyes Metabolized to 3,3'-Dimethoxybenzidine)
4-Dimethylaminoazobenzene
3,3'-Dimethylbenzidine (see 3,3'-Dimethylbenzidine and Dyes Metabolized to 3,3'-Dimethylbenzidine)

Dimethylcarbamoyl Chloride
1,1-Dimethylhydrazine
Dimethyl Sulfate
Dimethylvinyl Chloride
1,6-Dinitropyrene (see Nitroarenes [Selected])
1,8-Dinitropyrene (see Nitroarenes [Selected])
1,4-Dioxane
Disperse Blue 1
Dyes Metabolized to 3,3'-Dimethoxybenzidine (3,3'-Dimethoxybenzidine Dye Class) (see 3,3'-Dimethoxybenzidine and Dyes Metabolized to 3,3'-Dimethoxybenzidine)
Dyes Metabolized to 3,3'-Dimethylbenzidine (3,3'-Dimethylbenzidine Dye Class) (see 3,3'-Dimethylbenzidine and Dyes Metabolized to 3,3'-Dimethylbenzidine)
Epichlorohydrin
Ethylene Thiourea
Ethyl Methanesulfonate
Furan
Glass Wool Fibers (Inhalable), Certain
Glycidol
Hexachlorobenzene
Hexachloroethane
Hexamethylphosphoramide
Hydrazine and Hydrazine Sulfate
Hydrazobenzene
Indeno[1,2,3-cd]pyrene (see Polycyclic Aromatic Hydrocarbons: 15 Listings)
Iron Dextran Complex
Isoprene
Kepone
Lead and Lead Compounds
Lindane, Hexachlorocyclohexane (Technical Grade), and Other Hexachlorocyclohexane Isomers
2-Methylaziridine
5-Methylchrysene (see Polycyclic Aromatic Hydrocarbons: 15 Listings)
4,4'-Methylenebis(2-chloroaniline)
4,4'-Methylenebis(N,N-dimethyl)benzenamine
4,4'-Methylenedianiline and Its Dihydrochloride
Methyleugenol
Methyl Methanesulfonate
N-Methyl-N'-Nitro-N-Nitrosoguanidine (see N-Nitrosamines: 15 Listings)
Metronidazole
Michler's Ketone
Mirex
Naphthalene
Nickel, Metallic (see Nickel Compounds and Metallic Nickel)
Nitrilotriacetic Acid
o-Nitroanisole
Nitrobenzene
6-Nitrochrysene (see Nitroarenes [Selected])
Nitrofen
Nitrogen Mustard Hydrochloride
Nitromethane

2-Nitropropane
1-Nitropyrene (see Nitroarenes [Selected])
4-Nitropyrene (see Nitroarenes [Selected])
N-Nitrosodi-n-butylamine (see N-Nitrosamines: 15 Listings)
N-Nitrosodiethanolamine (see N-Nitrosamines: 15 Listings)
N-Nitrosodiethylamine (see N-Nitrosamines: 15 Listings)
N-Nitrosodimethylamine (see N-Nitrosamines: 15 Listings)
N-Nitrosodi-n-propylamine (see N-Nitrosamines: 15 Listings)
N-Nitroso-N-ethylurea (see N-Nitrosamines: 15 Listings)
4-(N-Nitrosomethylamino)-1-(3-pyridyl)-1-butanone (see N-Nitrosamines: 15 Listings)
N-Nitroso-N-methylurea (see N-Nitrosamines: 15 Listings)
N-Nitrosomethylvinylamine (see N-Nitrosamines: 15 Listings)
N-Nitrosomorpholine (see N-Nitrosamines: 15 Listings)
N-Nitrosornicotine (see N-Nitrosamines: 15 Listings)
N-Nitrosopiperidine (see N-Nitrosamines: 15 Listings)
N-Nitrosopyrrolidine (see N-Nitrosamines: 15 Listings)
N-Nitrososarcosine (see N-Nitrosamines: 15 Listings)
o-Nitrotoluene
Norethisterone
Ochratoxin A
4,4'-Oxydianiline
Oxymetholone
Pentachlorophenol and By-products of Its Synthesis
Phenacetin (see Phenacetin and Analgesic Mixtures Containing Phenacetin)
Phenazopyridine Hydrochloride
Phenolphthalein
Phenoxybenzamine Hydrochloride
Phenytoin and Phenytoin Sodium
Polybrominated Biphenyls
Polychlorinated Biphenyls
Procarbazine and Its Hydrochloride
Progesterone
1,3-Propane Sultone
 β -Propiolactone
Propylene Oxide
Propylthiouracil
Reserpine
Riddelliine
Safrole
Selenium Sulfide
Streptozotocin (see Nitrosourea Chemotherapeutic Agents)
Styrene
Styrene-7,8-oxide
Sulfallate
Tetrachloroethylene
Tetrafluoroethylene
Tetranitromethane
Thioacetamide
4,4'-Thiodianiline

Thiourea
Toluene Diisocyanates
Toxaphene
2,4,6-Trichlorophenol
1,2,3-Trichloropropane
Tris(2,3-dibromopropyl) Phosphate
Ultraviolet Radiation A (see Ultraviolet Radiation Related Exposures)
Ultraviolet Radiation B (see Ultraviolet Radiation Related Exposures)
Ultraviolet Radiation C (see Ultraviolet Radiation Related Exposures)
Urethane
Vinyl Bromide (see Vinyl Halides [Selected])
4-Vinyl-1-cyclohexene Diepoxide
Vinyl Fluoride (see Vinyl Halides [Selected])