Occupations or Occupational Groups Associated with Carcinogen Exposures



What are examples of occupational exposures that have been associated with exposure to carcinogens?

Examples of occupations and occupational groups that are more likely to have been exposed to carcinogens are listed in the following table.

Please note: This list was complied from information available from reputable sources, but it is not complete. It represents associations that have been reported in literature between occupations and examples of substances often linked to cancer that may have been used in the workplace.

Exposure to a carcinogen does not necessarily mean that you will develop cancer.

Some Occupations or Occupational Groups Associated with Carcinogen Exposure Occupations and Occupational Groups

Aircraft and aerospace industries

Aluminum production
Asbestos cement industry
Auramine manufacture
Battery production workers
Beryllium extraction and processing
Boot and shoe manufacture/repair
Bus and truck drivers; Dock workers;
Filling station attendants; Mechanics;
Operators of excavating machines;
Professional drivers; Railroad workers;
Transport industry
Cadmium-copper alloy workers; Cadmium-smelter workers

Carpentry and joinery; Furniture and cabinet making

Ceramic production

Chemical and rubber industries

Chemical industry

Chromate production plants; Chromium ferro-alloy production

Suspect Substance

Asbestos, Beryllium and beryllium compounds; Ionizing radiation
Aromatic amines; Pitch volatiles
Asbestos
Auramine; 2-Naphthylamine; Pigments
Cadmium and cadmium compounds
Beryllium and beryllium compounds
Leather dust, benzene and other solvents

Diesel engine exhaust

Cadmium and cadmium compounds

Wood dust

Cobalt and cobalt compounds
Aromatic amines; 1,3-Butadiene; Isoprene
Acetamide; Acrylamide; Benzene

Chromium (VI) compounds

Coal tar, coal-tar fumes; Polycyclic Coal gasification, coke production aromatic hydrocarbons (PAHs) Construction; Insulation and maintenance Asbestos; Glass wool; Silica workers (crystalline); Toluene diisocyanates Carbon tetrachloride; Tetrachloroethylene; Dry cleaning Trichloroethvlene Aromatic amines (e.g., 2-naphthylamine, 4aminobiphenyl); Benzidine; Cadmium and Dye and pigment production cadmium compounds; Chromium (VI) compounds Electrical capacitor manufacturing Polychlorinated biphenyls (PCBs) Beryllium and beryllium compounds; Electronic production/industries Dichloromethane (methylene chloride) Electroplating processes Cadmium and cadmium compounds Fabric manufacture (heat-resistant) Ceramic fibres (refractory; respirable) Polycyclic aromatic hydrocarbons (PAHs) Firefighters Furnace insulators Ceramic fibres (refractory; respirable) Furniture restorers Dichloromethane (methylene chloride) Glass production Cobalt and cobalt compounds Aerosols, Dyes (aromatic amines, aminophenols with hydrogen peroxide); Hairdressers & barbers Propellants; Solvents Hematite mining; Uranium miners Radon daughters; Silica (crystalline) Herbicide production Polychlorophenols and their sodium salts Hospitals Ethylene oxide Formaldehyde; Metal fumes; PAHs; Silica Iron and steel founding (crystalline) Isopropanol manufacture, strong-acid Diisopropyl sulfate; Isopropyl oils; process Sulfuric acid Jewellers Beryllium and beryllium compounds Polychlorophenols and their sodium salts, Leather manufacturing including tanning Chromium (VI) compounds Magenta; 4,4'-Methylene bis(2methylaniline); ortho-Nitrotoluene; ortho-Magenta manufacture Toluidine Manufacture of pottery, paper, paint and Talc containing asbestiform fibres cosmetics Metal degreasing Tetrachloroethylene; Trichloroethylene Strong-inorganic mists containing sulfuric Metals industry acid Mineral processing Acrylamide Cobalt and cobalt compounds; X- radiation, Miners (including underground) gamma-radiation Mining and milling Asbestos Mining of ores containing arsenic Arsenic and inorganic arsenic compounds Nickel refining and smelting; Welding Nickel and nickel compounds; Welding fumes

Arsenic and inorganic arsenic compounds

Beryllium and beryllium compounds; X-

radiation, gamma-radiation

Solar radiation

Paint stripping; Cleaning and degreasing Dichloromethane (methylene chloride); 1,2,3-Trichloropropane

Nonferrous metal smelting

Outdoor workers

following nuclear accidents

Nuclear industry; Clean-up workers

Perfume preparation; Epoxy resin formulations; Styrene glycol production; Manufacture of cosmetics, surface coatings, agricultural and biological chemicals

Styrene-7,8-oxide

Petroleum refining and distribution

Pharmaceutical production

Plastics industries

Plating and engraving; Lithography; Photography

Plutonium workers

Polyester resin manufacture; Production of packaging materials and fibreglass-reinforced polyester

Printing processes

Processing of copper and nickel ore Production and use of resins, glycerin and propylene-based rubbers

Production of art glass, glass containers, and pressed ware

Production of polyvinyl chloride and copolymers

Production, packaging, and use of arsenic-containing pesticides

Radiologists and technologists; Radium-

dial painters

Sheep dip manufacture

Sheet-metal workers

Shiftwork that involves circadian

disruption

Ship builders

Shipyard workers

Stainless-steel welding Steel and lumber industries

Sugar production

Textile manufacturing/industries

Water and wastewater treatment

Wood manufacturing

Wood preservation
Wool fibre production

Workers in bars and restaurants

Acrylamide; PAHs; Benzene; Diesel fuel, marine; Fuel oils, residual (heavy); Gasoline

Dichloromethane (methylene chloride)
Acetaldehyde; Acetamide; Acrylonitrile;
Ethyl acrylate; Isoprene; Special purpose
glass fibres (respirable); Styrene; Vinyl

Chromium (VI) compounds

X-radiation, gamma-radiation

Styrene

acetate

Inks; Solvents

Cobalt and cobalt compounds

Epichlorohydrin

Arsenic; Antimony oxides; Asbestos; Lead; PAHs; Silica (crystalline)

Vinyl chloride

Arsenic and inorganic arsenic compounds

X-radiation, gamma-radiation

Arsenic and inorganic arsenic compounds
Asbestos

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Ceramic fibres (refractory; respirable);

Toluene diisocyanates

Asbestos

Chromium (VI) compounds

Acrylamide Acrylamide

Acrylonitrile; Textile dust in

manufacturing process; Dyes and solvents

in dyeing and printing operations;

Formaldehyde

Acrylamide; Chromium (VI) compounds

Pentachlorophenol; Polychlorophenols and

their sodium salts

Chromium (VI) compounds; Pentachlorophenol Arsenic and inorganic arsenic compounds

Tobacco smoke

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