

Liste des cancérogènes du groupe 1 du CIRC*

CAS No.	Agent	Group	Volume	Year	Additional information
	Clonorchis sinensis (infection with)	1	61, 100B		2012
	Helicobacter pylori (infection with)	1	61, 100B		2012
	Opisthorchis viverrini (infection with)	1	61, 100B		2012
	Schistosoma haematobium (infection with)	1	61, 100B		2012
	Acheson process, occupational exposure associated with	1		111	2017
	Acid mists, strong inorganic	1	54, 100F		2012
	Alcoholic beverages	1	44, 96, 100E		2012
	Aluminium production	1	34, Sup 7, 92, 100F		2012
	Areca nut	1	85, 100E		2012
	Auramine production	1	Sup 7, 99, 100F		2012
					NB: Overall evaluation upgraded to Group 1 based on mechanistic and other relevant data
	Benzidine, dyes metabolized to	1	99, 100F		2012
	Betel quid with tobacco	1	Sup 7, 85, 100E		2012
	Betel quid without tobacco	1	Sup 7, 85, 100E		2012
	Coal gasification	1	Sup 7, 92, 100F		2012
	Coal, indoor emissions from household combustion of	1	95, 100E		2012
	Coke production	1	Sup 7, 92, 100F		2012
	Engine exhaust, diesel	1	46, 105		2014
	Epstein-Barr virus	1	70, 100B		2012
	Estrogen therapy, postmenopausal	1	72, 100A		2012
	Estrogen-progestogen menopausal therapy (combined)	1	72, 91, 100A		2012
					NB: There is also convincing evidence in humans that these agents confer a protective effect against cancer in the endometrium and ovary
	Estrogen-progestogen oral contraceptives (combined)	1	72, 91, 100A		2012
	Fission products, including strontium-90	1	100D		2012
	Fluoro-edenite fibrous amphibole	1		111	2017
	Haematite mining (underground)	1	1, Sup 7, 100D		2012
	Hepatitis B virus (chronic infection with)	1	59, 100B		2012
	Hepatitis C virus (chronic infection with)	1	59, 100B		2012
	Human T-cell lymphotropic virus type I	1	67, 100B		2012
	Human immunodeficiency virus type 1 (infection with)	1	67, 100B		2012
					NB: The HPV types that have been classified as carcinogenic to humans can differ by an order of magnitude in risk for cervical cancer
	Human papillomavirus types 16, 18, 31, 33, 35, 39, 45, 51, 52, 56	1	64, 90, 100B		2012
	Ionizing radiation (all types)	1	100D		2012
	Iron and steel founding (occupational exposure during)	1	34, Sup 7, 100F		2012
	Isopropyl alcohol manufacture using strong acids	1	Sup 7, 100F		2012
	Kaposi sarcoma herpesvirus	1	70, 100B		2012
	Leather dust	1	100C		2012
	MOPP and other combined chemotherapy including alkylating a	1	Sup 7, 100A		2012
	Magenta production	1	Sup 7, 57, 99, 100F		2012
	Mineral oils, untreated or mildly treated	1	33, Sup 7, 100F		2012
					NB: Overall evaluation upgraded to Group 1 with supporting evidence from other relevant data
	Neutron radiation	1	75, 100D		2012
	Nickel compounds	1	Sup 7, 49, 100C		2012
	Outdoor air pollution	1		109	2016
	Outdoor air pollution, particulate matter in	1		109	2016
	Painter (occupational exposure as a)	1	47, 98, 100F		2012
	Phenacetin, analgesic mixtures containing	1	Sup 7, 100A		2012
					NB: Overall evaluation upgraded to Group 1 with strong supporting evidence from other relevant data
	Polychlorinated biphenyls, dioxin-like, with a Toxicity Equivalenc	1		107	2016
	Processed meat (consumption of)	1		114	2018
	Radioiodines, including iodine-131	1	78, 100D		2012
					NB: Specific radionuclides for which there is sufficient evidence in humans are also listed individually as Group 1 agents
	Radionuclides, alpha-particle-emitting, internally deposited	1	78, 100D		2012
					NB: Specific radionuclides for which there is sufficient evidence in humans are also listed individually as Group 1 agents
	Radionuclides, beta-particle-emitting, internally deposited	1	78, 100D		2012
	Rubber manufacturing industry	1	28, Sup 7, 100F		2012
	Salted fish, Chinese-style	1	56, 100E		2012
	Solar radiation	1	55, 100D		2012
	Soot (as found in occupational exposure of chimney sweeps)	1	35, Sup 7, 92, 100F		2012
	Tobacco smoke, second-hand	1	83, 100E		2012

	Tobacco smoking	1 83, 100E	2012
	Tobacco, smokeless	1 Sup 7, 89, 100E	2012
			*Volume 100D concluded that there is sufficient evidence for ocular melanoma in welders; #Volume 118 concluded that ultraviolet emissions from welding are carcinogenic to humans (Group 1). There is sufficient evidence in humans for the carcinogenicity of ultraviolet emissions from welding)
	Ultraviolet radiation (wavelengths 100-400 nm, encompassing U	1 55, 100D*, 118#	2018 online
	Ultraviolet-emitting tanning devices	1 100D	2012
	Welding fumes	1 49, 118	2018 online
	Wood dust	1 62, 100C	2012
	X- and Gamma-Radiation	1 75, 100D	2012
10043-92-2	Radon-222 and its decay products	1 43, 78, 100D	2012
			NB: Overall evaluation upgraded to Group 1 based on 2012 mechanistic and other relevant data
101-14-4	4,4'-Methylenebis(2-chloroaniline) (MOCA)	1 Sup 7, 57, 99, 100F	
			NB: There is also conclusive evidence that tamoxifen reduces the risk of contralateral breast cancer in breast cancer patients
10540-29-1	Tamoxifen	1 66, 100A	2012
106-99-0	1,3-Butadiene	1 Sup 7, 54, 71, 97, 100F	2012
13233-32-4	Radium-224 and its decay products	1 78, 100D	2012
			NB: Mineral substances (e.g. talc or vermiculite) that contain asbestos should also be regarded as carcinogenic to humans *The presence of an asterisk indicates that the registration is for a substance which CAS does not treat in its regular CA index
1332-21-4, 1217:	Asbestos (all forms, including actinolite, amosite, anthophyllite,	1 14, Sup 7, 100C	2012
1336-36-3	Polychlorinated biphenyls	1 18, Sup 7, 107	2016
13909-09-6	Semustine [1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosou	1 Sup 7, 100A	2012
13982-63-3	Radium-226 and its decay products	1 78, 100D	2012
1402-68-2	Aflatoxins (B1, B2, G1, G2, M1)	1 Sup 7, 56, 82, 100F	2012
14596-37-3	Phosphorus-32, as phosphate	1 78, 100D	2012
148-82-3	Melphalan	1 9, Sup 7, 100A	2012
14808-60-7	Silica dust, crystalline, in the form of quartz or cristobalite	1 Sup 7, 68, 100C	2012
15262-20-1	Radium-228 and its decay products	1 78, 100D	2012
			NB: Overall evaluation upgraded to Group 1 based on 2012 mechanistic and other relevant data
16543-55-8, 640!	N'-Nitrosornicotine (NNN) and 4-(N-Nitrosomethylamino)-1-(:	1 Sup 7, 89, 100E	2012
1746-01-6	2,3,7,8-Tetrachlorodibenzo-para-dioxin	1 Sup 7, 69, 100F	2012
18540-29-9	Chromium (VI) compounds	1 Sup 7, 49, 100C	2012
298-81-7	Methoxsalen (8-methoxypsoralen) plus ultraviolet A radiation	1 24, Sup 7, 100A	2012
299-75-2	Treosulfan	1 26, Sup 7, 100A	2012
305-03-3	Chlorambucil	1 26, Sup 7, 100A	2012
			NB: Overall evaluation upgraded to Group 1 based on 2012 mechanistic and other relevant data
313-67-7	Aristolochic acid	1 82, 100A	2012
313-67-7	Aristolochic acid, plants containing	1 82, 100A	2012
			NB: Overall evaluation upgraded to Group 1 based on 2012 mechanistic and other relevant data
33419-42-0	Etoposide	1 76, 100A	2012
33419-42-0, 156!	Etoposide in combination with cisplatin and bleomycin	1 76, 100A	2012
446-86-6	Azathioprine	1 26, Sup 7, 100A	2012
494-03-1	Chlornaphazine	1 4, Sup 7, 100A	2012
50-00-0	Formaldehyde	1 Sup 7, 62, 88, 100F	2012
50-18-0, 6055-1!	Cyclophosphamide	1 26, Sup 7, 100A	2012
			NB: Overall evaluation upgraded to Group 1 based on 2012 mechanistic and other relevant data
50-32-8	Benzo[a]pyrene	1 Sup 7, 92, 100F	2012
505-60-2	Sulfur mustard	1 9, Sup 7, 100F	2012
52-24-4	Thiotepa	1 Sup 7, 50, 100A	2012
542-88-1, 107-3!	Bis(chloromethyl)ether; chloromethyl methyl ether (technical-gr	1 4, Sup 7, 100F	2012
55-98-1	Busulfan	1 4, Sup 7, 100A	2012
56-53-1	Diethylstilbestrol	1 21, Sup 7, 100A	2012

57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	1 100F		NB: Overall evaluation upgraded to Group 1 based on 2012 mechanistic and other relevant data
57465-28-8	3,4,5,3',4'-Pentachlorobiphenyl (PCB-126)	1 100F		See Polychlorinated biphenyls, dioxin-like, with a TEF
58-89-9	Lindane (see also Hexachlorocyclohexanes)	1	113	2012 according to WHO
59865-13-3, 792:	Cyclosporine	1 50, 100A		2012
62-44-2	Phenacetin	1 24, Sup 7, 100A		NB: Overall evaluation upgraded to Group 1 with supporting 2012 evidence from other relevant data
64-17-5	Ethanol in alcoholic beverages	1 96, 100E		2012
65996-93-2	Coal-tar pitch	1 35, Sup 7, 100F		2012
66733-21-9	Erionite	1 42, Sup 7, 100C		2012
68308-34-9	Shale oils	1 35, Sup 7, 100F		2012
71-43-2	Benzene	1 29, Sup 7, 100F, 120		2018
7440-07-5	Plutonium	1 78, 100D		2012
7440-29-1	Thorium-232 and its decay products	1 78, 100D		2012
7440-38-2	Arsenic and inorganic arsenic compounds	1 23, Sup 7, 100C		2012
7440-41-7	Beryllium and beryllium compounds	1 Sup 7, 58, 100C		2012
7440-43-9	Cadmium and cadmium compounds	1 58, 100C		2012
75-01-4	Vinyl chloride	1 Sup 7, 97, 100F		2012
75-07-0	Acetaldehyde associated with consumption of alcoholic beverag	1 100E		2012
75-21-8	Ethylene oxide	1 Sup 7, 60, 97, 100F		NB: Overall evaluation upgraded to Group 1 based on 2012 mechanistic and other relevant data
78-87-5	1,2-Dichloropropane	1 41, Sup 7, 71, 110		2017
79-01-6	Trichloroethylene	1 Sup 7, 63, 106		2014
8007-45-2	Coal-tar distillation	1 92, 100F		2012
87-86-5	Pentachlorophenol (see also Polychlorophenols)	1 53, 71, 117		2019
91-59-8	2-Naphthylamine	1 4, Sup 7, 99, 100F		2012
92-67-1	4-Aminobiphenyl	1 1, Sup 7, 99, 100F		2012
92-87-5	Benzidine	1 29, Sup 7, 99, 100F		2012
95-53-4	ortho-Toluidine	1 Sup 7, 77, 99, 100F		2012

*Extrait de la base de données du CIRC disponible à l'adresse suivante : <https://monographs.iarc.fr/list-of-classifications>