	ents Classified by the IARC Monographs, Volumes 1–121				
CAS No.	Agent	Group	Volume	Year	Additional information
50-00-0	Formaldehyde	1	Sup 7, 62, 88,	2012	
	Phenobarbital	2B	100F Sup 7, 79	2001	
	Mitomycin C	2B	10, Sup 7	1987	
	·		26, Sup 7,		
6055-19-2	Cyclophosphamide	1	100A	2012	
50-29-3	DDT (4,4'-dichlorodiphenyltrichloroethane)	2A	Sup 7, 53, 113	2017 online	
50-32-8	Benzo[<i>a</i>]pyrene	1	Sup 7, 92, 100F	2012	NB: Overall evaluation upgraded to Group 1 based on mechanistic and or relevant data
50-33-0	Phenylbutazone	3	13, Sup 7	1987	relevant data
	Clomiphene citrate	3	21, Sup 7	1987	
	6-Mercaptopurine	3	26, Sup 7	1987	
	Reserpine	3	24, Sup 7	1987	
50-76-0	Actinomycin D	3	10, Sup 7	1987	
	Pronetalol hydrochloride	3	13, Sup 7	1987	
	Piperonyl butoxide	3	30, Sup 7	1987	
51-18-3	2,4,6-Tris(1-aziridinyl)- <i>s</i> -triazine	3	9, Sup 7	1987	
51-21-8	5-Fluorouracil	3	26, Sup 7	1987	
51-52-5	Propylthiouracil	2B	Sup 7, 79	2001	
	Nitrogen mustard	2A	9, Sup 7	1987	
	Ethyl carbamate (Urethane)	2A	7, Sup 7, 96	2010	
	Spironolactone	3	Sup 7, 79	2001	
		1	Sup 7, 50,	2012	
	Thiotepa		100A		
	Apholate	3	9, Sup 7	1987	
	Trichlorfon	3	30, Sup 7	1987	
53-03-2	Prednisone	3	26, Sup 7	1987	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
53-70-3	Dibenz[<i>a</i> , <i>h</i>]anthracene	2A	Sup 7, 92	2010	NB: Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data
54-05-7	Chloroquine	3	13, Sup 7	1987	ironi otner reievant data
	Furosemide (Frusemide)	3	50	1990	
	Isonicotinic acid hydrazide (Isoniazid)	3	4, Sup 7	1987	
	<i>N</i> -Nitrosodiethylamine	2A	17, Sup 7	1987	NB: Overall evaluation upgraded to Group 2A with supporting evidence
<i>55</i> 00 1	1,4-Butanediol dimethanesulfonate (see Busulfan)				from other relevant data
55-98-1	Busulfan	1	4, Sup 7, 100A	2012	
55-98-1	Myleran (see Busulfan)				
56-04-2	Methylthiouracil	2B	Sup 7, 79	2001	
	Carbon tetrachloride	2B	20, Sup 7, 71	1999	
	Cantharidin	3	10, Sup 7	1987	
56-38-2	Parathion	2B	30, Sup 7, 112	2017	
56-53-1	Diethylstilbestrol	1	21, Sup 7, 100A	2012	
56-55-3	Benz[<i>a</i>]anthracene	2B	92, Sup 7	2010	
	Chloramphenicol	2A	Sup 7, 50	1990	NB: Overall evaluation upgraded to Group 2A with supporting evidence
	Anti-at-		72.6 -	100-	from other relevant data
	Allyl isothiocyanate	3	73, Sup 7	1999	
	1,1-Dimethylhydrazine	2B	4, Sup 7, 71 9, Sup 7	1999	
	Tris(2-methyl-1-aziridinyl)phosphine oxide Phenytoin	3 2B	9, Sup 7 Sup 7, 66	1987 1996	
	beta-Propiolactone	2B	4, Sup 7, 71	1999	
	Sulfamethazine	3	79	2001	NB: Overall evaluation downgraded Group 3 with supporting evidence f
			0 7 70 70	2001	other relevant data
	Chalasteral	2B	Sup 7, 53, 79	2001	
	Cholesterol Caffeine	3	31, Sup 7	1987 1991	
	Pyrimethamine	3	13, Sup 7	1987	
	Theophylline	3	51	1991	
	Lindane (see also Hexachlorocyclohexanes)	1	113	2017 online	
58-93-5	Hydrochlorothiazide	2B	50, 108	2016	
	Methotrexate	3	26, Sup 7	1987	
	Nitrofural (Nitrofurazone)	3	50	1990	
	<i>N</i> -Nitrosomorpholine	2B	17, Sup 7	1987	
	<i>>ara</i> - Aminoazobenzene - Jimethylaminoazobenzene	2B 2B	8, Sup 7 8, Sup 7	1987 1987	
	Acetamide	2B	7, Sup 7, 71	1999	
	Methimazole	3	7, Sup 7, 71	2001	
	Dieldrin (see Dieldrin, and aldrin metabolized to dieldrin)				
7-1, 309-00-2	Dieldrin, and aldrin metabolized to dieldrin	2A	5, Sup 7, 117	In prep.	
61-57-4	Niridazole	2B	13, Sup 7	1987	
61-82-5	Amitrole	3	79, Sup 7	2001	NB: Overall evaluation downgraded Group 3 with supporting evidence f other relevant data
					NB: Overall evaluation upgraded to
62-44-2	Phenacetin	1	24, Sup 7, 100A	2012	Group 1 with supporting evidence f
	Phenacetin Ethyl methanesulfonate	1 2B	24, Sup 7, 100A 7, Sup 7	2012 1987	Group 1 with supporting evidence f other relevant data

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CAS No.	Agent	Group	Volume	Year	Additional information
	Thioacetamide	2B	7, Sup 7	1987	
	Thiourea Dichlorvos	3 2B	Sup 7, 79 Sup 7, 53	2001 1991	
02-73-7	Diction vos	2.0	Sup 7, 33	1771	NB: Overall evaluation upgraded to
62-75-9	<i>N</i> -Nitrosodimethylamine	2A	17, Sup 7	1987	Group 2A with supporting evidence
02 70 7	Wall dis This south carry and the		17, Sup 7	1707	from other relevant data
63-25-2	Carbaryl	3	12, Sup 7	1987	
63-92-3	Phenoxybenzamine hydrochloride	2B	24, Sup 7	1987	
64-17-5	Ethanol in alcoholic beverages	1	96, 100E	2012	
					NB: Overall evaluation upgraded to
64-67-5	Diethyl sulfate	2A	54, 71	1999	Group 2A with supporting evidence from other relevant data
					NB: Overall evaluation upgraded to
66-27-3	Methyl methanesulfonate	2A	7, Sup 7, 71	1999	Group 2A with supporting evidence
	.,		,		from other relevant data
66-75-1	Uracil mustard	2B	9, Sup 7	1987	
67-20-9	Nitrofurantoin	3	50	1990	
67-45-8	Furazolidone	3	31, Sup 7	1987	
67-63-0	Isopropyl alcohol	3	15, Sup 7, 71	1999	
67-66-3	Chloroform	2B	Sup 7, 73	1999	
67-72-1	Hexachloroethane	2B	73	1999	
68-12-2	<i>N</i> , <i>N</i> -Dimethylformamide	2A	47, 71, 115	2018 online	
	Tris(aziridinyl)- <i>para</i> -benzoquinone (Triaziquone)	3	9, Sup 7	1987	
69-53-4	Ampicillin	3	50	1990	
					NB: Overall evaluation upgraded to
70-25-7	<i>N</i> -Methyl- <i>N</i> '-nitro- <i>N</i> -nitrosoguanidine (MNNG)	2A	4, Sup 7	1987	Group 2A with supporting evidence
					from other relevant data
70-30-4	Hexachlorophene	3	20, Sup 7	1987	
	Benzene	1	29, Sup 7.	In	
/1-43-2	Benzene	1	100F, 120	In prep.	
71-55-6	1,1,1-Trichloroethane	3	20, Sup 7, 71	1999	
71-58-9	Medroxyprogesterone acetate	2B	21, Sup 7	1987	
72-20-8	Endrin	3	5, Sup 7	1987	
72-43-5	Methoxychlor	3	20, Sup 7	1987	
72-57-1	Trypan blue	2B	8, Sup 7	1987	
74-83-9	Methyl bromide	3	41, Sup 7, 71	1999	
74-85-1	Ethylene	3	Sup 7, 60	1994	
74-87-3	Methyl chloride	3	41, Sup 7, 71	1999	
74-88-4	Methyl iodide	3	41, Sup 7, 71	1999	
74-96-4	Bromoethane	3	52, 71	1999	
75-00-3	Chloroethane	3	52, 71	1999	
75-01-4	Vinyl chloride	1	Sup 7, 97, 100F	2012	
	Vinyl fluoride	2A	Sup 7, 63, 97	2008	NB: (1) Overall evaluation upgraded Group 2A based on mechanistic and other relevant data; (2) For practical purposes, vinyl fluc should be considered to act similarl; the human carcinogen vinyl chloride
75-07-0	Acetaldehyde	2B	36, Sup 7, 71	1999	
75-07-0	Acetaldehyde associated with consumption of alcoholic beverages	1	100E	2012	
75-09-2	Dichloromethane (Methylene chloride)	2A	Sup 7, 71, 110	2017	
			Sup 7, 60, 97,		NB: Overall evaluation upgraded to
75-21-8	Ethylene oxide	1	100F	2012	Group 1 based on mechanistic and
					relevant data
	Bromoform	3	52, 71	1999	
75-27-4	Bromodichloromethane	2B	52, 71	1999	
75-35-4	Vinylidene chloride	2B	39, Sup 7, 71,	In prep.	
			119		
	Vinylidene fluoride	3	39, Sup 7, 71	1999	
	Chlorodifluoromethane	3	41, Sup 7, 71	1999	
	Nitromethane 2-Methylaziridine (Propyleneimine)	2B	77 0. Sup 7. 71	2000 1999	
	2-Methylaziridine (Propyleneimine) Propylene oxide	2B	9, Sup 7, 71		
	Dimethylarsinic acid	2B 2B	Sup 7, 60 100C	1994 2012	
75-60-5 75-87-6	ý.	2B 2A	63, 84, 106	2012	
	2-Chloro-1,1,1-trifluoroethane	3	41, Sup 7, 71	1999	
	Pentachloroethane	3	41, Sup 7, 71	1999	
	Trichloroacetic acid	2B	63, 84, 106	2014	
/0-0.5-9	Heptachlor Heptachlor	2B	Sup 7, 53, 79	2001	
	Phenolphthalein	2B	76	2000	
76-44-8		1			NB: Overall evaluation upgraded to
76-44-8		1	4, Sup 7, 71	1999	Group 2A with supporting evidence
76-44-8 77-09-8	Dimethyl sulfate	2A			from other relevant data
76-44-8 77-09-8 77-78-1				1999	from other relevant data
76-44-8 77-09-8 77-78-1 78-79-5	Isoprene	2B	60, 71		from other relevant data
76-44-8 77-09-8 77-78-1 78-79-5				1999 2017	from other relevant data
76-44-8 77-09-8 77-78-1 78-79-5 78-87-5	Isoprene	2B	60, 71 41, Sup 7, 71,		from other relevant data
76-44-8 77-09-8 77-78-1 78-79-5 78-87-5 78-98-8	Isoprene 1,2-Dichloropropane	2B	60, 71 41, Sup 7, 71, 110	2017	from other relevant data
76-44-8 77-09-8 77-78-1 78-79-5 78-87-5 78-98-8 79-00-5	Isoprene 1,2-Dichloropropane Methylglyoxal	2B 1 3	60, 71 41, Sup 7, 71, 110 51	2017 1991	from other relevant data
76-44-8 77-09-8 77-78-1 78-79-5 78-87-5 78-98-8 79-00-5 79-01-6	Isoprene 1,2-Dichloropropane Methylglyoxal 1,1,2-Trichloroethane	2B 1 3 3	60, 71 41, Sup 7, 71, 110 51 52, 71	2017 1991 1999	NB: Overall evaluation upgraded to

	ents Classified by the IARC Monographs, Volumes 1–121				
CAS No.	Agent	Group	Volume	Year	Additional information
79-34-5	1,1,2,2-Tetrachloroethane	2В	20, Sup 7, 71,	2014	
		an.	106 63, 84, 106	2014	
/9-43-0	Dichloroacetic acid	2B	03, 84, 100	2014	NB: Overall evaluation upgraded to
79-44-7	Dimethylcarbamoyl chloride	2A	12, Sup 7, 71	1999	Group 2A with supporting evidence
/3-44-/	Differing Carbanioy Chloride	2A	12, Sup 7, 71	1999	from other relevant data
79-46-9	2-Nitropropane	2B	29, Sup 7, 71	1999	nom other relevant data
77 40 7	2 Maopropane	25	25, Sup 7, 71	1,,,,	
79-94-7	Tetrabromobisphenol A	2A	115	2018 online	
80-08-0	Dapsone	3	24, Sup 7	1987	
80-62-6	Methyl methacrylate	3	Sup 7, 60	1994	
					NB: Overall evaluation downgraded
81-07-2	Saccharin and its salts	3	Sup 7, 73	1999	Group 3 with supporting evidence fr
		_			other relevant data
	Musk xylene	3	65	1996	
	1-Amino-2,4-dibromoanthraquinone	2B	101	2013	
	Rhodamine B	3	16, Sup 7	1987	
	1-Amino-2-methylanthraquinone	3	27, Sup 7	1987	
	Quintozene (Pentachloronitrobenzene)	3	5, Sup 7	1987	
83-32-9	Acenaphthene	3	92	2010	
83-63-6	Diacetylaminoazotoluene	3	8, Sup 7	1987	
83-66-9	Musk ambrette	3	65	1996	
	Theobromine	3	51	1990	
	Anthraquinone	2B	101	2013	
	Anthraquinone Phenanthrene	2B 3	Sup 7, 92	2013	
	Butyl benzyl phthalate	3	Sup 7, 92 Sup 7, 73	1999	
	Scarlet Red	3	8, Sup 7	1999	
	Yellow AB	3	8, Sup 7	1987	
	Sudan III	3	8, Sup 7	1987	
	<i>N</i> -Nitrosodiphenylamine	3	27, Sup 7	1987	
	Hydralazine	3	24, Sup 7	1987	
	1-Nitronaphthalene	3	46	1989	
	Fluorene	3	Sup 7, 92	2010	
			32, Sup 7, 71,		
86-74-8	Carbazole	2B	103	2013	
86-88-4	1-Naphthylthiourea (ANTU)	3	30, Sup 7	1987	
	Cinnamyl anthranilate	3	Sup 7, 77	2000	
	2,6-Dimethylaniline (2,6-Xylidine)	2B	57	1993	
	Hexachlorobutadiene	3	73	1999	
87-86-5	Pentachlorophenol (see also Polychlorophenols)	1	53, 71, 117	In prep.	
88-05-1	2,4,6-Trimethylaniline	3	27, Sup 7	1987	
88-06-2	2,4,6-Trichlorophenol (see also Polychlorophenols)	2B	117	In prep.	
88-12-0	<i>N</i> -Vinyl-2-pyrrolidone	3	19, Sup 7, 71	1999	
88-72-2	2-Nitrotoluene	2A	101	2013	NB: Overall evaluation upgraded to Group 2A with supporting evidence
					from other relevant data
88-73-3 					
	Chloronitrobenzenes	3	65	1996	
100-00-5					
	Pulegone	2B	108	2016	
	<i>ortho</i> -Anisidine	2B	Sup 7, 73	1999	
	<i>ortho</i> -Phenylphenol	3	73	1999	
	Penicillic acid	3	10, Sup 7	1987	
	Michler's ketone [4,4'-Bis(dimethylamino)-benzophenone]	2B	99	2010	
	Naphthalene	2B	82	2002	
	Quinoline	2B	121	In prep.	
91-23-6	2-Nitroanisole	2B	65	1996	
91-59-8	2-Naphthylamine	1	4, Sup 7, 99, 100F	2012	
01 64 5	Coumarin	3	Sup 7, 77	2000	
	3,3'-Dimethoxybenzidine-4,4'-diisocyanate	3	Sup 7, 77 39, Sup 7	1987	
	3,3'-Dichlorobenzidine 3,3'-Dichlorobenzidine	2B	29, Sup 7	1987	
			1, Sup 7, 99,		
92-67-1	4-Aminobiphenyl	1	1, Sup 7, 99, 100F	2012	
		- 	29, Sup 7, 99,		
92-87-5	Benzidine	1	100F	2012	
92-93-3	4-Nitrobiphenyl	3	4, Sup 7	1987	
	Methyleugenol	2B	101	2013	
	Benzoyl peroxide	3	36, Sup 7, 71	1999	
	Dihydrosafrole	2B	10, Sup 7	1987	
94-59-7		2B	10, Sup 7	1987	
	2,4-D (2,4-dichlorophenoxyacetic acid) (See also Chlorophenoxy herbicides)	2B	113	2016 online	
	Sulfallate	2B	30, Sup 7	1987	
	<i>ortho</i> -Dichlorobenzene	3	Sup 7, 73	1999	
			Sup 7, 77, 99,		
95-53-4	<i>orth</i> o -Toluidine	1	100F	2012	
95-68-1	2,4-Xylidine	3	16, Sup 7	1987	
	4-Chloro- <i>ortho</i> -toluidine	2A	77, 99	2010	
	2,5-Diaminotoluene	3	16, Sup 7	1987	
	2,5-Xylidine	3	16, Sup 7	1987	
	5-Chloro- <i>ortho</i> -toluidine	3	77, 99	2010	
93-79-4					
	2,4-Diaminotoluene	2B	16, Sup 7	1987	

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CAS No.	Agent	Group	Volume	Year	Additional information NB: Overall evaluation upgraded to
96-09-3	Styrene-7,8-oxide	2A	Sup 7, 60, 121	In prep.	Group 2A with supporting evidence from other relevant data
96-12-8	1,2-Dibromo-3-chloropropane	2B	20, Sup 7, 71	1999	nom other relevant data
96-13-9	2,3-Dibromopropan-1-ol	2B	77	2000	
	1,2,3-Trichloropropane	2A	63	1995	
	1,3-Dichloro-2-propanol	2B	101	2013	
	3-Monochloro-1,2-propanediol	2B	101	2013	
96-33-3	Methyl acrylate	3	39, Sup 7, 71	1999	
96-45-7	Ethylenethiourea	3	Sup 7, 79	2001	NB: Overall evaluation downgraded Group 3 with supporting evidence f other relevant data
	gamma-Butyrolactone	3	11, Sup 7, 71	1999	
	Eugenol	3	36, Sup 7	1987	
	<i>ortho</i> -Aminoazotoluene	2B	8, Sup 7	1987	
	Disulfiram E. f. and declarity	3 2D	12, Sup 7	1987	
	Furfuryl alcohol	2B 3	119 63	In prep. 1995	
98-01-1	Cumene	2B	101	2013	
	a-Methylstyrene	2B	101	2013	
98-87-3 	a menyistyrene	ZD	101	2013	
98-07-7 	alpha-Chlorinated toluenes (benzal chloride, benzotrichloride, benzyl chloride) and benzoyl chloride (combined exposures)	2A	29, Sup 7, 71	1999	
98-95-3	Nitrobenzene	2B	65	1996	
99-08-1 	Nitrotaluanes	3	65	1996	
99-99-0					
	5-Nitro- <i>ortho</i> -toluidine	3	48	1990	1
	1,2-Diamino-4-nitrobenzene	3	16, Sup 7	1987	1
	2-Amino-4-nitrophenol	3	57	1993	
	5-Nitro- <i>ortho</i> -anisidine	3	27, Sup 7	1987 1987	
	N ! -Methyl- N ! ,4-dinitrosoaniline N ! , N ! - Dimethyl- p ! - toluidine	3 2B	1, Sup 7	2018 online	
	4-Vinylcyclohexene	2B 2B	Sup 7, 60	1994	
	Ethylbenzene	2B	77	2000	
100-42-5	•	2A	60, 82, 121	In prep.	
	<i>N</i> -Nitrosopiperidine	2B	17, Sup 7	1987	
	4,4'-Methylenebis(2-chloroaniline) (MOCA)	1	Sup 7, 57, 99, 100F	2012	NB: Overall evaluation upgraded to Group 1 based on mechanistic and relevant data
101-21-3	Chloropropham	3	12, Sup 7	1987	leievant data
	Dinitrosopentamethylenetetramine	3	11, Sup 7	1987	
	Michler's base [4,4'-methylenebis($\langle i \rangle N \langle i \rangle$, $\langle i \rangle N \langle i \rangle$ -dimethyl)-benzenamine]	2B	27, Sup 7, 99	2010	
	4,4'-Methylenediphenyl diisocyanate	3	19, Sup 7, 71	1999	
101-77-9	4,4'-Methylenedianiline	2B	39, Sup 7	1987	
101-80-4	4,4'-Diaminodiphenyl ether	2B	29, Sup 7	1987	
	Diglycidyl resorcinol ether	2B	36, Sup 7, 71	1999	
	<i>meta</i> -Cresidine	3	27, Sup 7	1987	
	Triethanolamine	3	77	2000	
	Phenicarbazide	3	12, Sup 7	1987	
	2-Ethylhexyl acrylate	3	60	1994	
	Di(2-ethylhexyl) adipate	3	Sup 7, 77	2000	
	Azobenzene Acetaminophen (see Paracetamol)	3	8, Sup 7	1987	1
	Acetaminophen (see Paracetamot) Paracetamol (Acetaminophen)	3	50, 73	1999	
	<i>ratacetanioi (Acetaninophen) <i>para</i>-Anisidine</i>	3	27, Sup 7	1987	1
	<i>para</i> -Benzoquinone dioxime	3	29, Sup 7, 71	1999	1
	<i>N</i> , <i>N</i> '-Diethylthiourea	3	79	2001	
	Caprolactam	4	39, Sup 7, 71	1999	
105-74-8	Lauroyl peroxide	3	36, Sup 7, 71	1999	
	<i>para</i> -Dichlorobenzene	2B	Sup 7, 73	1999	
	<i>para</i> -Chloroaniline	2B	57	1993	
	<i>para</i> -Phenylenediamine	3	16, Sup 7	1987	
	<i>para</i> -Quinone	3	15, Sup 7, 71	1999	
	4-Vinylcyclohexene diepoxide 1.2-Epoxybutane	2B 2B	Sup 7, 60 47, 71	1994 1999	NB: Overall evaluation upgraded to Group 2B with supporting evidence from other relevant data
106-89-8	Epichlorohydrin	2A	11, Sup 7, 71	1999	NB: Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data
106-93-4	Ethylene dibromide	2A	15, Sup 7, 71	1999	NB: Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data
106-94-5	1-Bromopropane	2B	115	2018 online	
106.00.0	1,3-Butadiene	1	Sup 7, 54, 71,	2012	
I UV-da Tu			97, 100F		
	Acrolein	3	63, Sup 7	1995	
107-02-8				1000	i .
107-02-8 107-05-1	Allyl chloride	3	36, Sup 7, 71	1999	
107-02-8 107-05-1 107-06-2	Allyl chloride 1,2-Dichloroethane	2B	20, Sup 7, 71	1999	
107-02-8 107-05-1 107-06-2 107-13-1	Allyl chloride 1,2-Dichloroethane Acrylonitrile	2B 2B	20, Sup 7, 71 71	1999 1999	
107-02-8 107-05-1 107-06-2 107-13-1	Allyl chloride 1,2-Dichloroethane	2B	20, Sup 7, 71	1999	

CAS No.	Agent	Group	Volume	Year	Additional information
108-10-1	Methyl isobutyl ketone	2B	101	2013	
	Succinic anhydride	3	15, Sup 7	1987	
	<i>meta</i> -Phenylenediamine	3	16, Sup 7	1987	
108-46-3	Resorcinol	3	15, Sup 7, 71	1999	
108-60-1	Bis(2-chloro-1-methylethyl)ether	3	41, Sup 7, 71	1999	
	• •		-		
	Melamine	2B	Sup 7, 73, 119	In prep.	
108-88-3		3	47, 71	1999	
	Cyclohexanone	3	47, 71	1999	
108-95-2		3	47, 71	1999	
	Tetrahydrofuran	2B	119	In prep.	
110-00-9		2B	63	1995	
	<i><i>>trans</i>>-1,4-Dichlorobutene</i>	3	15, Sup 7, 71	1999	
110-86-1	Morpholine	2B 3	77, 119 47, 71	In prep. 1999	
	Diethanolamine	2B	77, 101	2013	
	Bis(2-chloroethyl)ether	3	9, Sup 7, 71	1999	
	2-Butoxyethanol	3	88	2006	
	Azaserine Azaserine	2B	10, Sup 7	1987	
	Propylene	3	Sup 7, 60	1994	
	Chlorendic acid	2B	48	1994	
115-28-0		3	30, Sup 7	1990	
	Tris(2-chloroethyl) phosphate	3	48, 71	1999	
116-06-3		3	53	1999	
.10 00-3				1//1	
116-14-3	Tetrafluoroethylene	2A	19, Sup 7, 71, 110	2017	NB: Overall evaluation upgraded to Group 2A on the basis of sufficient evidence in experimental animals w striking and atypical pattern of tum-
117-10-2	Dantron (Chrysazin; 1,8-Dihydroxyanthraquinone)	2B	50	1990	
	Quercetin	3	Sup 7, 73	1999	
117-79-3	2-Aminoanthraquinone	3	27, Sup 7	1987	
	Bis(2-ethylhexyl) phthalate (see Di(2-ethylhexyl) phthalate)				
117-81-7	Di(2-ethylhexyl)phthalate	2B	Sup 7, 77, 101	2013	
	Hexachlorobenzene	2B	Sup 7, 79	2001	
118-92-3	Anthranilic acid	3	16, Sup 7	1987	
118-96-7	2,4,6-Trinitrotoluene	3	65	1996	
119-34-6	4-Amino-2-nitrophenol	3	16, Sup 7	1987	
119-61-9	Benzophenone	2B	101	2013	
119-90-4	3,3'-Dimethoxybenzidine (<i>ortho</i> -Dianisidine)	2B	4, Sup 7	1987	
119-93-7	3,3'-Dimethylbenzidine (<i>ortho</i> -Tolidine)	2B	1, Sup 7	1987	
120-12-7	Anthracene	3	92, Sup 7	2010	
120-58-1	Isosafrole	3	10, Sup 7	1987	
120-71-8	<i>para</i> -Cresidine	2B	27, Sup 7	1987	
	Catechol	2B	15, Sup 7, 71	1999	
121-14-2	2,4-Dinitrotoluene	2B	65	1996	
	2-Amino-5-nitrothiazole	3	31, Sup 7	1987	
	<i>N</i> , <i>N</i> -Dimethylaniline	3	57	1993	
	Malathion	2A	30, Sup 7, 112	2017	
	2-Amino-5-nitrophenol	3	57	1993	
	Simazine	3	53, 73	1999	
	Propham	3	12, Sup 7	1987	
	Phenyl glycidyl ether	2B	47, 71	1999	
	Hydroquinone	3	15, Sup 7, 71	1999	
	Maleic hydrazide	3	4, Sup 7	1987	
	β-Myrcene	2B	119	In prep.	-
	1,4-Dioxane	2B	11, Sup 7, 71	1999	
	Chlorodibromomethane	3	52, 71	1999	-
	Methylarsonic acid	2B	100C	2012	-
	Monomethylarsonic acid (see Methylarsonic acid)		100	201 -	+
	Primidone	2B	108	2016	-
	Griseofulvin Tris(2,3-dibromopropyl) phosphate	2B 2A	Sup 7, 79 20, Sup 7, 71	1999	NB: Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data
126-85-2	Nitrogen mustard <i>N</i> -oxide	2B	9, Sup 7	1987	
126-99-8	Chloroprene	2B	Sup 7, 71	1999	
127-07-1	Hydroxyurea	3	76	2000	
127-18-4	Tetrachloroethylene (Perchloroethylene)	2A	Sup 7, 63, 106	2014	
	Sulfafurazole (Sulfisoxazole)	3	24, Sup 7	1987	
	Butylated hydroxytoluene (BHT)	3	40, Sup 7	1987	
	Vat Yellow 4	3	48	1990	
129-00-0	·	3	Sup 7, 92	2010	
	2-Methyl-1-nitroanthraquinone (uncertain purity)	2B	27, Sup 7	1987	
	Blue VRS	3	16, Sup 7	1987	
	Oxyphenbutazone	3	13, Sup 7	1987	
	1-Hydroxyanthraquinone	2B	82	2002	
131-79-3	Yellow OB	3	8, Sup 7	1987	
132-27-4	Sodium <i>ortho</i> -phenylphenate	2B	Sup 7, 73	1999	
132-65-0	Dibenzothiophene	3	103	2013	
133-06-2		3	30, Sup 7	1987	
	1-Naphthylamine	3	4, Sup 7	1987	
135-88-6	<i>N</i> -Phenyl-2-naphthylamine	3	16, Sup 7	1987	
136-40-3	Phenazopyridine hydrochloride	2B	24, Sup 7	1987	
	2,4,5-Trimethylaniline	3	27, Sup 7	1987	
13/-1/-/				1991	

	ents Classified by the IARC Monographs, Volumes 1–121				
AS No.	Agent	Group	Volume	Year	Additional information
137-30-4		3	Sup 7, 53	1991	
	Shikimic acid	3	40, Sup 7	1987	
	Cyclamates (sodium cyclamate)	3	Sup 7, 73	1999	NB: Evaluated as a group
	Nitrilotriacetic acid and its salts	2B	48, 73	1999	NB: Evaluated as a group
	4,4'-Thiodianiline	2B	27, Sup 7	1987 1987	
	5 Nithiazide 4 Benzyl acetate	3	31, Sup 7 40, Sup 7, 71	1987	
	7 <i>para</i> -Dimethylaminoazobenzenediazo sodium sulfonate	3	8, Sup 7	1987	
	RARamite®	2B	5, Sup 7	1987	
	Ethyl acrylate	2B	39, Sup 7, 71	1987	
	2 <i>n</i> /i> -Butyl acrylate	3	39, Sup 7, 71	1999	
		3	39, Sup 7, 71	1999	
141-37-7	7 3,4-Epoxy-6-methylcyclohexylmethyl-3,4-epoxy-6-methylcyclo-hexanecarboxylate	3	11, Sup 7, 71	1999	
141.00.2	2 Thiouracil	2B	Sup 7, 79	2001	
	5 2,4-Hexadienal	2B	101	2013	
	Chlordecone (Kepone)	2B	20, Sup 7	1987	
	Vinblastine sulfate	3	26, Sup 7	1987	
	Methyl selenac	3	12, Sup 7	1987	
	Sodium diethyldithiocarbamate	3	12, Sup 7	1987	
	8 8-Hydroxyquinoline	3	12, Sup 7	1987	
148-82-3	Melphalan	1	9, Sup 7, 100A	2012	
1/0.20	l Patulin	3	40, Sup 7	1987	
	4 2-Mercaptobenzothiazole	2A	40, Sup /	2018 online	
	2-Mercaptobenzotniazote 0 <i>para</i> -Aminobenzoic acid	2A 3	16, Sup 7	1987	
	5 Separa	3	Sup 7, 53	1987	
150-68-3		3	Sup 7, 53 12, Sup 7	1991	
130-69-6	Duicii	3	12, Sup /	198/	ND. Overelllti
151-56-4	4 Aziridine	2В	9, Sup 7, 71	1999	NB: Overall evaluation upgraded t Group 2B with supporting evidence from other relevant data
154-93-8	Bischloroethyl nitrosourea (BCNU)	2A	26, Sup 7	1987	
156-10-5	5 <i>para</i> -Nitrosodiphenylamine	3	27, Sup 7	1987	
156-51-4	Phenelzine sulfate	3	24, Sup 7	1987	
	Dibenzo[<i>a</i> , <i>i</i>] pyrene	2B	92	2010	
	Dibenzo[<i>a</i> , <i>h</i>] pyrene	2B	Sup 7, 92	2010	
	l Coronene	3	32, Sup 7, 92	1987	
	Benzo[<i>ghi</i>]perylene	3	92, Sup 7	2010	
	4 Anthanthrene	3	92, Sup 7	2010	
			, =,		NB: Overall evaluation upgraded to
191-30-0	Dibenzo[<i>>a</i> , <i>l</i>) pyrene	2A	Sup 7, 92	2010	Group 2A with supporting evidence from other relevant data
192-47-2	2 Dibenzo[<i>h</i> , <i>rst</i>]pentaphene	3	Sup 7, 92	2010	
192-51-8	B Dibenzo[<i>e</i> , <i>l</i>]pyrene	3	92	2010	
192-65-4	Dibenzo[<i>a</i> , <i>e</i>]pyrene	3	Sup 7, 92	2010	
192-97-2	2 Benzo[<i>e</i>]pyrene	3	92, Sup 7	2010	
193-09-9	Naphtho[2,3- <i>e</i>]pyrene	3	92	2010	
193-39-5	5 Indeno[1,2,3- <i>cd</i>]pyrene	2B	Sup 7, 92	2010	
194-59-2	$2 \ 7H$ -Dibenzo[$\langle i \rangle c \langle i \rangle, \langle i \rangle g \langle i \rangle$] carbazole	2B	32, Sup 7, 103	2013	
195-19-7	7 Benzo[<i>c</i>]phenanthrene	2В	92, Sup 7	2010	NB: Overall evaluation upgraded to Group 2B with supporting evidence from other relevant data
106.79	Benzo[<i>g</i>]chrysene	3	92	2010	from other relevant data
	Perylene	3	Sup 7, 92	2010	
	Perylene Benz[<i>j</i>]aceanthrylene	2B	92	2010	NB: Overall evaluation upgraded to Group 2B with supporting mechan
			<u> </u>	<u></u>	and other relevant data
202-94-8	3 11 <i>H</i> -Benz[<i>bc</i>]aceanthrylene	3	92	2010	
	2 4H-Cyclopenta[<i>def</i>]chrysene	3	92	2010	
	Benzo[<i>ghi</i>] fluoranthene	3	92, Sup 7	2010	
	Naphtho[2,1- <i>a</i>]fluoranthene	3	92	2010	
	Benzo[<i>a</i>] Ifluoranthene	3	92, Sup 7	2010	
203-33-8					
	Benzo[<i>c</i> /i>) Ifluorene	3	92, Sup 7	2010	
205-12-9			92, Sup 7 92	2010	
205-12-9 205-82-3	Benzo[<i>c</i>]fluorene	3			
205-12-9 205-82-3 205-99-2	Benzo[<i>c</i>]fluorene Benzo[<i>j</i>]fluoranthene	3 2B	92	2010	
205-12-9 205-82-3 205-99-2 206-44-0	Benzo[<i>>c</i> >] fluorene Benzo[<i>>j</i> >] fluoranthene Benzo[<i>>b</i>] fluoranthene	3 2B 2B	92 92	2010 2010	
205-12-9 205-82-3 205-99-2 206-44-0 207-08-9	Benzo[<i>>c</i> >] fluorene Benzo[<i>>j</i>] fluoranthene Benzo[<i>>b</i>] fluoranthene Fluoranthene	3 2B 2B 2B 3	92 92 Sup 7, 92	2010 2010 2010	
205-12-9 205-82-3 205-99-2 206-44-0 207-08-9 207-83-0	Benzo[<i>>c</i> >] fluorene Benzo[<i>>j</i> >] fluoranthene Benzo[<i>>b</i> >] fluoranthene Fluoranthene Benzo[<i>k</i> >] fluoranthene	3 2B 2B 3 2B	92 92 Sup 7, 92 92	2010 2010 2010 2010	
205-12-9 205-82-3 205-99-2 206-44-0 207-08-9 207-83-0	Benzo[< $i > c < i >$] fluorene Benzo[< $i > j < i >$] fluoranthene Benzo[< $i > b < i >$] fluoranthene Fluoranthene Benzo[< $i > k < i >$] fluoranthene Benzo[< $i > k < i >$] fluoranthene Benzo[< $i > k < i >$] fluoranthene 13H - Dibenzo[< $i > a < i >$, < $i > g < i >$] fluorene Benz[< $i > l < i >$] sceanthrylene	3 2B 2B 3 2B 3	92 92 Sup 7, 92 92 92	2010 2010 2010 2010 2010 2010	
205-12-9 205-82-3 205-99-2 206-44-0 207-08-9 207-83-0 211-91-0 213-46-2	Benzo[$<$ i> $>$ c $<$ i> $>$ jfluorene Benzo[$<$ i> $>$ j $<$ i $>>jfluoranthene Benzo[<i>>b<i>>jfluoranthene Fluoranthene Benzo[<i>>e<i>>jfluoranthene Benzo[<i>>e<i>>jfluoranthene JaH-Dibenzo[<i>>e<i>>jfluorene Benz[<i>>ezeanthrylene Fluoranthene Jenzel<i>>ezeanthrylene Fluoranthene$	3 2B 2B 3 2B 3 3 3	92 92 Sup 7, 92 92 92 92	2010 2010 2010 2010 2010 2010 2010 2010	
205-12-5 205-82-2 205-99-2 206-44-0 207-08-5 207-83-0 211-91-0 213-46-2 214-17-5	Benzo[< $i > c < i >$] fluorene Benzo[< $i > j < i >$] fluoranthene Benzo[< $i > b < i >$] fluoranthene Fluoranthene Benzo[< $i > k < i >$] fluoranthene Benzo[< $i > k < i >$] fluoranthene Benzo[< $i > k < i >$] fluoranthene 13H - Dibenzo[< $i > a < i >$, < $i > g < i >$] fluorene Benz[< $i > l < i >$] sceanthrylene	3 2B 2B 3 2B 3 3	92 92 Sup 7, 92 92 92 92 92	2010 2010 2010 2010 2010 2010 2010	
205-12-5 205-82-3 205-99-2 206-44-0 207-08-5 207-83-0 211-91-0 213-46-7 214-17-5 215-58-7	Benzo <i>c</i> fluorene Benzo <ij< i=""> fluoranthene Benzo <ij< i=""> fluoranthene Benzo <ij< i=""> fluoranthene Fluoranthene Benzo <ij< i=""> fluoranthene Benzo <ij< i=""> fluoranthene 13H - Dibenzo <ij< i=""> c fluorene Benzo <ij< i=""> fluorene Benzo <ij> fluorene Benzo <ij> fluorene Benzo fluorene Benzo </ij></ij></ij<></ij<></ij<></ij<></ij<></ij<></ij<></ij<></ij<></ij<></ij<></ij<></ij<></ij<></ij<></ij<></ij<></ij<></ij<></ij<></ij<></ij<></ij<></ij<></ij<></ij<>	3 2B 2B 3 2B 3 3 3 3 3	92 92 Sup 7, 92 92 92 92 92 92 92 92 92 92	2010 2010 2010 2010 2010 2010 2010 2010	
205-12-5 205-82-3 205-99-2 206-44-0 207-08-5 207-83-0 211-91-0 213-46-7 214-17-5 215-58-7 217-59-4	Benzo $ \langle i \rangle c \langle i \rangle $ fluorene Benzo $ \langle i \rangle f $ fluoranthene Benzo $ \langle i \rangle b \langle i \rangle $ fluoranthene Benzo $ \langle i \rangle b \langle i \rangle $ fluoranthene Benzo $ \langle i \rangle b \langle i \rangle $ fluoranthene Benzo $ \langle i \rangle b \langle i \rangle $ fluoranthene 13 <i>H</i> -Dibenzo $ \langle i \rangle a \langle i \rangle $ fluorene Benzo $ \langle i \rangle b \langle i \rangle $ jaceanthrylene Picene Benzo $ \langle i \rangle b \langle i \rangle $ jchrysene Dibenz $ \langle i \rangle a \langle i \rangle $ jchrysene Dibenz $ \langle i \rangle a \langle i \rangle $ jchrysene	3 2B 2B 3 2B 3 3 3 3 3 3 3	92 92 Sup 7, 92 92 92 92 92 92 92 92 Sup 7, 92 Sup 7, 92	2010 2010 2010 2010 2010 2010 2010 2010	
205-12-9 205-82-2 205-99-2 206-44-0 207-83-0 211-91-0 213-46-7 214-17-2 215-58-7 218-01-9	Benzo <i>c</i> fluorene Benzo <i>j</i> fluoranthene Benzo <i>b</i> fluoranthene Fluoranthene Benzo <i>k</i> fluoranthene Benzo <i>k</i> fluoranthene 13H - Dibenzo <i>a</i> s fluorene Benzo <i>k</i> jaceanthrylene Fluorene Benzo <i>k</i> jaceanthrylene Dibenzo <i>k</i> jehrysene Dibenzo <i>k</i> jehrysene Triphenylene Chrysene	3 2B 2B 3 2B 3 3 3 3 3 3 3 2B	92 92 Sup 7, 92 92 92 92 92 92 92 92 Sup 7, 92 Sup 7, 92 Sup 7, 92	2010 2010 2010 2010 2010 2010 2010 2010	
205-12-5 205-82-2 205-99-2 206-44-(207-08-5 207-83-6 211-91-6 213-46-7 214-17-5 215-58-2 217-59-2 218-01-5 224-41-5	Benzo $ \langle i \rangle c \langle i \rangle $ fluorene Benzo $ \langle i \rangle f $ fluoranthene Benzo $ \langle i \rangle b \langle i \rangle $ fluoranthene Benzo $ \langle i \rangle b \langle i \rangle $ fluoranthene Benzo $ \langle i \rangle b \langle i \rangle $ fluoranthene Benzo $ \langle i \rangle b \langle i \rangle $ fluoranthene 13 <i>H</i> -Dibenzo $ \langle i \rangle a \langle i \rangle $ fluorene Benzo $ \langle i \rangle b \langle i \rangle $ jaceanthrylene Picene Benzo $ \langle i \rangle b \langle i \rangle $ jchrysene Dibenz $ \langle i \rangle a \langle i \rangle $ jchrysene Dibenz $ \langle i \rangle a \langle i \rangle $ jchrysene	3 2B 2B 3 2B 3 3 3 3 3 3 3	92 92 Sup 7, 92 92 92 92 92 92 92 92 Sup 7, 92 Sup 7, 92	2010 2010 2010 2010 2010 2010 2010 2010	Group 2A with supporting evidence
205-12-5 205-82-4 205-99-2 207-08-5 207-08-5 211-91-6 213-46-5 214-17-5 215-58-5 217-59-6 218-01-5 224-41-6	Benzo $ \langle i \rangle c \langle i \rangle $ Ifluorene Benzo $ \langle i \rangle c \langle i \rangle $ Ifluoranthene Benzo $ \langle i \rangle b \langle i \rangle $ Ifluoranthene Pluoranthene Benzo $ \langle i \rangle b \langle i \rangle $ Ifluoranthene 13H-Dibenzo $ \langle i \rangle a \langle i \rangle $ Ifluorene Benz $ \langle i \rangle b \langle i \rangle $ Jaceanthrylene Picene Benzo $ \langle i \rangle b \langle i \rangle $ Jchrysene Dibenz $ \langle i \rangle a \langle i \rangle $ Jchrysene Triphenylene Chrysene Dibenz $ \langle i \rangle a \langle i \rangle $ Janthracene	3 2B 2B 3 2B 3 3 3 3 3 3 3 2B 3 3 3 3 3	92 92 Sup 7, 92 92 92 92 92 92 Sup 7, 92 Sup 7, 92 Sup 7, 92 Sup 7, 92	2010 2010 2010 2010 2010 2010 2010 2010	Group 2A with supporting evidence from other relevant data NB: Overall evaluation upgraded to Group 2B with supporting evidence
205-12-5 205-82-2 205-99-2 207-08-5 207-08-5 207-83-6 211-91-6 213-46-7 214-17-5 214-17-5 214-17-5 214-17-5 224-41-5 224-42-6	Benzo < -> c Bluorene Benzo < -> c Benzo < -> f luoranthene Benzo < -> b Bluoranthene Benzo < -> c > b Bluoranthene Benzo < -> c > c > s Bluoranthene Benzo < -> c > c > c > s Bluoranthene Benzo < -> c > c > c > s Bluorene Benzo < -> c > c > c > s Benzo < -> c > s Benzo < c > s Benzo < c > s Benzo Benzo <td>3 2B 2B 3 2B 3 3 3 3 3 3 3 3 2B 3 2B 3</td> <td>92 92 Sup 7, 92 92 92 92 92 92 Sup 7, 92 Sup 7, 92 Sup 7, 92 Sup 7, 92 32, Sup 7, 103</td> <td>2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010</td> <td>Group 2A with supporting evidence from other relevant data NB: Overall evaluation upgraded to</td>	3 2B 2B 3 2B 3 3 3 3 3 3 3 3 2B 3 2B 3	92 92 Sup 7, 92 92 92 92 92 92 Sup 7, 92 Sup 7, 92 Sup 7, 92 Sup 7, 92 32, Sup 7, 103	2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010 2010	Group 2A with supporting evidence from other relevant data NB: Overall evaluation upgraded to
205-12-5 205-82-3 205-99-2 206-44-4 207-08-3 207-83-4 211-91-6 213-46-5 214-17-5 215-58-5 217-59-4 218-01-5 224-41-5 224-42-6	Benzo <i>c</i> Bluorene	3 2B 2B 3 2B 3 3 3 3 3 3 3 2B 3 2B 3 2B	92 92 92 92 92 92 92 92 Sup 7, 92 Sup 7, 92 Sup 7, 92 32, Sup 7, 103	2010 2010 2010 2010 2010 2010 2010 2010	Group 2A with supporting evidence from other relevant data NB: Overall evaluation upgraded to Group 2B with supporting evidence
205-12-5 205-82-5 205-99-2 206-44-0 207-08-5 207-83-0 211-91-0 214-17-5 215-58-5 217-59-2 218-01-5 224-41-5 224-42-0 224-53-5	Benzo <i>c</i> fluorene Benzo <i>b</i> fluoranthene Benzo <i>b</i> fluoranthene Benzo <i>b</i> fluoranthene Benzo <i>b</i> fluoranthene Benzo <i>c</i> fluorene Benzo <i>c</i> fluorene Ficene Benzo <i>b</i> chrysene Dibenz <i>c</i> fluorene Triphenylene Chrysene Dibenz <i>c</i> fluorene Dibenz fluorene Diben	3 2B 2B 3 3 3 3 3 3 2B 3 3 2B 3 3 3 3 3	92 92 92 92 92 92 92 92 92 Sup 7, 92 Sup 7, 92 Sup 7, 92 32, Sup 7, 103 32, Sup 7, 103 32, Sup 7, 103	2010 2010 2010 2010 2010 2010 2010 2010	Group 2A with supporting evidence from other relevant data NB: Overall evaluation upgraded to Group 2B with supporting evidence
205-12-5 205-82-4 205-99-2 206-44-4 207-08-3 207-83-4 211-91-6 214-17-5 215-58-5 217-59-4 218-01-5 224-41-6 224-53-5 225-51-4 225-51-4 226-36-8	Benzo < i>c Bluorene Benzo < i>j Bluoranthene Benzo < i>b Bluoranthene Bluoranthene Bluoranthene Benzo < i>b Bluoranthene Benzo < i>k Bluoranthene Benzo < i>k Bluoranthene Benzo < i>k Jaceanthrylene Benzo < i>k Jaceanthrylene Benzo < i>k Jehrysene Dibenz < i>a Jehrysene Dibenz < -i>a Jehrysene Dibenz < Dibenz < Jehrysene Dibenz < Dibe	3 2B 2B 3 3 3 3 2B 2A 2B 3 3 3 3 2B 2B 3 3 3 3 3 3 3 3 3 3 3	92 92 Sup 7, 92 92 92 92 92 92 92 Sup 7, 92 Sup 7, 92 32, Sup 7, 103 32, Sup 7, 103 32, Sup 7, 103 32, Sup 7, 103	2010 2010 2010 2010 2010 2010 2010 2010	Group 2A with supporting evidence from other relevant data NB: Overall evaluation upgraded to Group 2B with supporting evidence
205-12-5 205-82-4 205-99-2 207-83-4 207-83-4 211-91-6 214-17-5 215-55-2 218-01-5 224-41-5 224-42-6 224-36-6 225-51-6 226-36-8 238-84-4	Benzo <i>c</i> fluorene Benzo <i>b</i> fluoranthene Benzo <i>b</i> fluoranthene Benzo <i>b</i> fluoranthene Benzo <i>b</i> fluoranthene Benzo <i>c</i> fluorene Benzo <i>c</i> fluorene Ficene Benzo <i>b</i> chrysene Dibenz <i>c</i> fluorene Triphenylene Chrysene Dibenz <i>c</i> fluorene Dibenz fluorene Diben	3 2B 2B 3 3 3 3 3 3 2B 3 3 2B 3 3 3 3 3	92 92 92 92 92 92 92 92 92 Sup 7, 92 Sup 7, 92 Sup 7, 92 32, Sup 7, 103 32, Sup 7, 103 32, Sup 7, 103	2010 2010 2010 2010 2010 2010 2010 2010	NB: Overall evaluation upgraded to Group 2B with supporting evidence

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CAS No.	Agent	Group	Volume	Year	Additional information
	Dibenzo- <i>para</i> -dioxin	3	69	1997	
	Benzofuran	2B	63	1995	
298-00-0	Methyl parathion	3	30, Sup 7	1987	
298-81-7	Methoxsalen (8-methoxypsoralen) plus ultraviolet A radiation	1	24, Sup 7, 100A	2012	
299-75-2	Treosulfan	1	26, Sup 7,	2012	
202.01.2	m 1 ·		100A 4, Sup 7, 71,	2010 1	
	Hydrazine	2A	115	2018 online	
	Chloral hydrate	2A	63, 84, 106	2014	
	Lasiocarpine	2B	10, Sup 7	1987	
303-47-9	Ochratoxin A	2B	Sup 7, 56	1993	
305-03-3	Chlorambucil	1	26, Sup 7, 100A	2012	
309-00-2	Aldrin (see Dieldrin, and aldrin metabolized to dieldrin)		100A		
313-67-7	Aristolochic acid	1	82, 100A	2012	NB: Overall evaluation upgraded to Group 1 based on mechanistic and o
313-67-7	Aristolochic acid, plants containing	1	82, 100A	2012	relevant data
				1987	
	Evans blue	3	8, Sup 7		
315-18-4		3	12, Sup 7	1987	
315-22-0	Monocrotaline	2B	10, Sup 7	1987	
320-67-2	Azacitidine	2A	50	1990	NB: Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data
331-39-5	Caffeic acid	2B	56	1993	from other relevant data
	Diazinon	2A	112	2017	NB: Overall evaluation upgraded to Group 2A based on mechanistic evidence
334-88-3	Diazomethane	3	7, Sup 7	1987	
	Perfluorooctanoic acid (PFOA)	2B	110	2017	
	Procarbazine hydrochloride	2A	26, Sup 7	1987	NB: Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data
206.01.0	Triamterene	2B	108	2016	nom oner relevant data
	Ethylene sulfide	3	11, Sup 7	1987	
439-14-5	Diazepam	3	Sup 7, 66	1996	
443-48-1	Metronidazole	2B	13, Sup 7	1987	
446-86-6	Azathioprine	1	26, Sup 7, 100A	2012	
	Retrorsine Seneciphylline	3	10, Sup 7 10, Sup 7	1987 1987	
	5-Methoxypsoralen	2A	40, Sup 7	1987	NB: Overall evaluation upgraded to Group 2A with supporting evidence
402 17 1	2,4'-Diphenyldiamine		16 6 7	1007	from other relevant data
492-17-1	2,4-Diphenyidiamine	3	16, Sup 7	1987	
492-80-8	Auramine	2B	1, Sup 7, 99, 100F	2012	
493-52-7	Methyl red	3	8, Sup 7	1987	
494-03-1	Chlornaphazine	1	4, Sup 7, 100A	2012	
494-03-1	<i>N</i> , <i>N</i> -Bis(2-chloroethyl)-2-naphthylamine (see Chlornaphazine)				
494-38-2	Acridine orange	3	16, Sup 7	1987	
501-30-4	Kojic acid	3	79	2001	
	Mustard gas (see Sulfur mustard)				
	Sulfur mustard	1	9, Sup 7, 100F	2012	
509,-14.9	Tetranitromethane	2B	65	1996	
	Chlorobenzilate	3	30, Sup 7	1990	1
		2B	63	1987	
	1-Chloro-2-methylpropene			1995	
518-75-2		3	40, Sup 7		
	Kaempferol	3	31, Sup 7	1987	
	CI Acid Orange 20	3	8, Sup 7	1987	
	Orange I (see CI Acid Orange 20)		1		
	Angelicin plus ultraviolet A radiation	3	40, Sup 7	1987	
	Merphalan	2B	9, Sup 7	1987	
531-82-8	<i>N</i> -[4-(5-Nitro-2-furyl)-2-thiazolyl]acetamide	2B	7, Sup 7	1987	
532-82-1	Chrysoidine	3	8, Sup 7	1987	
536-33-4	Ethionamide	3	13, Sup 7	1987	NB: Overall evaluation upgraded to
	1,2-Dimethylhydrazine	2A	4, Sup 7, 71	1999	Group 2A with supporting evidence from other relevant data
	<i>meta</i> -Dichlorobenzene	3	73	1999	
542-75-6	1,3-Dichloropropene (technical-grade)	2B	41, Sup 7, 71	1999	
542-78-9	Malonaldehyde	3	36, Sup 7, 71	1999	
42-88-1 107-30-2		1	4, Sup 7, 100F	2012	
	Trichloroacetonitrile	3	52, 71	1999	
343-06-2				1007	
545-55-1	Tris(1-aziridinyl)phosphine oxide	3	9, Sup 7	1987	
545-55-1	Tris(1-aziridinyl)phosphine oxide Mannomustine dihydrochloride	3	9, Sup 7 9, Sup 7	1987	

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AS No.	Agent	Group	Volume	Year	Additional information NB: Overall evaluation upgraded to
556-52-5	Glycidol	2A	77	2000	Group 2A with supporting evidence from other relevant data
562-10-7	Doxylamine succinate	3	79	2001	
	Semicarbazide hydrochloride	3	12, Sup 7	1987	
	3-Chloro-2-methylpropene, technical grade	2B	63, 115	2018 online	
	CI Basic Red 9 2-Nitronaphthalene	2B 3	57, 99 46	2010 1989	
	Methylazoxymethanol acetate	2B	10, Sup 7	1987	
593-60-2	Vinyl bromide	2A	39, Sup 7, 71, 97	2008	NB: (1) Overall evaluation upgrade Group 2A based on mechanistic an other relevant data; (2) For practical purposes, vinyl bro should be considered to act similarl the human carcinogen vinyl chlorid
	Chlorofluoromethane	3	41, Sup 7, 71	1999	
	Methyl carbamate	3	12, Sup 7	1987	
	Sulfasalazine 9-Nitroanthracene	2B 3	108	2016 1987	
	5-Nitroacenaphthene	2B	33, Sup 7 16, Sup 7	1987	
	Oxazepam	2B	Sup 7, 66	1996	
	2,6-Dinitrotoluene	2B	65	1996	
	2-Nitrofluorene	2B	46, 105	2014	
	2,6-Dichloro- <i>para</i> -phenylenediamine	3 2D	39, Sup 7	1987	
	<i><i>N</i>,<i>N</i>'-Diacetylbenzidine 2,4-Diaminoanisole</i>	2B 2B	16, Sup 7 Sup 7, 79	1987 2001	
	z,4-Diaminoanisole <i>N</i> -Methyl- <i>N</i> -nitrosourethane	2B 2B	4, Sup 7	1987	
	3,5-Dinitrotoluene	3	65	1996	
621-64-7	<i>N</i> -Nitrosodi- <i>n</i> -propylamine	2B	17, Sup 7	1987	
627-12-3	<i>n</i> -Propyl carbamate	3	12, Sup 7	1987	
630-20-6	1,1,1,2-Tetrachloroethane	2B	41, Sup 7, 71, 106	2014	
631-64-1	Dibromoacetic acid	2B	101 Sup 7, 57, 99,	2013	
632-99-5	Magenta	2B	100F	2012	
637-07-0	Clofibrate	3	Sup 7, 66	1996	
	Dihydroaceanthrylene	3	92	2010	
680-31-9	Hexamethylphosphoramide	2B	15, Sup 7, 71	1999	
684-93-5	<i>N</i> -Methyl- <i>N</i> -nitrosourea	2A	17, Sup 7	1987	NB: Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data
	2-Methylimidazole	2B	101	2013	
	2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole	2B	7, Sup 7	1987	
	Sulfamethoxazole <i>N</i> -Ethyl- <i>N</i> -nitrosourea	3 2A	Sup 7, 79 17, Sup 7	1987	NB: Overall evaluation upgraded to Group 2A with supporting evidence
765-34-4	Glycidaldehyde	2B	11, Sup 7, 71	1999	from other relevant data
	2-Nitropyrene	3	46	1989	
	Dihydroxymethylfuratrizine (see also Panfuran S)	3	24, Sup 7	1987	
794-93-4	Panfuran S (containing dihydroxymethylfuratrizine)	2B	24, Sup 7	1987	
	Aziridyl benzoquinone	3	9, Sup 7	1987	
	Nitrovin Trichlormethine (Trimustine hydrochloride)	3 2B	31, Sup 7 Sup 7, 50	1987 1990	
	4-Methylimidazole	2B	101	2013	
	Dimethoxane	3	15, Sup 7	1987	
	1-Methylphenanthrene	3	Sup 7, 92	2010	
	4,4'-Methylene bis(2-methylaniline)	2B	4, Sup 7	1987	
842-07-9 846-50-4	Sudan I Temazepam	3	8, Sup 7 66	1987 1996	
	Dimethyl hydrogen phosphite	3	48, 71	1990	
	3-Nitrofluoranthene	3	33, Sup 7	1987	
	Amaranth	3	8, Sup 7	1987	
	<i>N</i> -Nitrosodi- <i>n</i> -butylamine	2B	17, Sup 7	1987	
	<i>√i>N√i> -Nitrosopyrrolidine Rhodamine 6G</i>	2B 3	17, Sup 7 16, Sup 7	1987 1987	
	Glyphosate	2A	112	2017	
1072-52-2	2-(1-Aziridinyl)ethanol	3	9, Sup 7	1987	
1116-54-7	<i>N</i> -Nitrosodiethanolamine	2B	17, Sup 7, 77	2000	
	1,3-Propane sultone	2A	4, Sup 7, 71, 110	2017	NB: Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data
	Dithranol	3	13; Sup 7	1987	
	Decabromodiphenyl oxide Callium associate (see Arronic and increasis associa associate)	3	48, 71	1999	
	Gallium arsenide (see Arsenic and inorganic arsenic compounds) Ferric oxide	3	86, 100C 1, Sup 7	2012 1987	
	Antimony trioxide	2B	47	1989	
	Vanadium pentoxide	2B	86	2006	
	Haematite	3	1, Sup 7	1987	
			1	1	i .
1318-02-1	Zeolites other than erionite (clinoptilolite, phillipsite,mordenite, non-fibrous Japanese zeolite, synthetic zeolites)	3	68	1997	

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CAS No.	Agent	Group	Volume	Year	Additional information
1332-21-4 77536-67-5* 12172-73-5 77536-66-4* 12001-29-5 12001-28-4 77536-68-6	Asbestos (all forms, including actinolite, amosite, anthophyllite, chrysotile, crocidolite, tremolite)	1	14, Sup 7, 100C	2012	NB: Mineral substances (e.g. talc or vermiculite) that contain asbestos should also be regarded as carcinogenic to humans tr/> *The presence of an asterisk indicates that the registration is for a substance which CAS does not treat in its regular CA index
	Molybdenum trioxide	2B	118	In prep.	
	4 Carbon black	2B	Sup 7, 65, 93	2010	
	3 Polychlorinated biphenyls 5 Iron sorbitol-citric acid complex	3	18, Sup 7, 107 2, Sup 7	2016 1987	
	6 Antimony trisulfide	3	47	1989	
	4 Tannic acid and tannins	3	10, Sup 7	1987	
1402-68-2	2 Aflatoxins	1	56, 82, 100F, Sup 7	2012	
	5 1,2:3,4-Diepoxybutane (see <i>Monographs</i> on 1,3-Butadiene)		11, Sup 7	1987	
	8 Trifluralin	3	53	1991	
	1 1,2-Diethylhydrazine	2B	4, Sup 7, 71	1999	
	4 Methyl <i>zert</i> -butyl ether 3 Bisphenol A diglycidyl ether (Araldite)	3	73 47, 71	1999 1999	
	3 4-Hydroxyazobenzene	3	8, Sup 7	1999	
	3 Benzyl violet 4B	2B	16, Sup 7	1987	
	7 6-Methylchrysene	3	Sup 7, 92	2010	
	0 3-Methylfluoranthene	3	Sup 7, 92	2010	
1746-01-	6 2,3,7,8-Tetrachlorodibenzo- <i>para</i> -dioxin	1	Sup 7, 69, 100F	2012	
	5 Nitrofen (technical-grade)	2B	30, Sup 7	1987	
1897-45-	6 Chlorothalonil	2B	Sup 7, 73	1999	
	9 Atrazine	3	53, 73	1999	NB: Overall evaluation downgraded to Group 3 with supporting evidence from other relevant data
	1 Picloram	3	53	1991	
	8 CI Orange G	3	8, Sup 7	1987	
	8 Orange G (see CI Orange G)				
	7 CI Direct Black 38 (see Benzidine, dyes metabolized to)	2	11 6 7 71	1000	
	5 Triethylene glycol diglycidyl ether 2 Vincristine sulfate	3	11, Sup 7, 71 26, Sup 7	1999 1987	
	2 Fluometuron	3	30, Sup 7	1987	
	5 Bis(1-aziridinyl)morpholinophosphine sulfide	3	9, Sup 7	1987	
	1 1,5-Naphthalenediamine	3	27, Sup 7	1987	
	4 Diallate	3	30, Sup 7	1987	
2318-18-	5 Senkirkine	3	31, Sup 7	1987	
	9 Fast Green FCF	3	16, Sup 7	1987	
2385-85-		2B	20, Sup 7	1987	
	5 Bis(2,3-epoxycyclopentyl)ether 1 Captafol	3 2A	47, 71 53	1999 1991	NB: Overall evaluation upgraded to Group 2A with supporting evidence
					from other relevant data
	6 CI Pigment Red 3	3	57	1993	
	5 CI Direct Blue 15 7 I1-Aminoundecanoic acid	2B 3	57	1993	
	8 Disperse Blue 1	2B	39, Sup 7 48	1987 1990	
	2 CI Direct Blue 6 (see Benzidine, dyes metabolized to)	2.0	40	1990	
	5 Oil Orange SS	2B	8, Sup 7	1987	
	6 Agaritine	3	31, Sup 7	1987	
	0 Sunset Yellow FCF	3	8, Sup 7	1987	
	3 HC Blue No. 1	2B	57	1993	
	8 Disperse Yellow 3	3	48	1990	
	4 Allyl isovalerate	3	36, Sup 7, 71	1999	
	4 HC Red No. 3 6 Prazepam	3	57 66	1993 1996	
	6 Diisopropyl sulfate	2B	54, 71	1990	
	0 Dichloroacetonitrile	3	52, 71	1999	
	0 beta-Butyrolactone	2B	11, Sup 7, 71	1999	
	6 Sudan II	3	8, Sup 7	1987	
	6 1,5-Naphthalene diisocyanate	3	19, Sup 7, 71	1999	
	5 Dibromoacetonitrile	2B	52, 71, 101	2013	
	0 2,2-Bis(bromomethyl)propane-1,3-diol	2B	77	2000	
	8 1-Methylchrysene	3	Sup 7, 92	2010	1
	2 4-Methylchrysene 3 3-Methylchrysene	3	Sup 7, 92 Sup 7, 92	2010 2010	
	2-Methylchrysene	3	Sup 7, 92 Sup 7, 92	2010	
	8 Ponceau 3R	2B	8, Sup 7	1987	
	9 Carmoisine	3	8, Sup 7	1987	
	0 2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiazole	2B	7, Sup 7	1987	
3570-75-	7 AF-2 [2-(2-Furyl)-3-(5-nitro-2-furyl)acrylamide]	2B	31, Sup 7	1987	
3688-53-		1 0.0	Sup 7, 92	2010	
3688-53- 3697-24-	3 5-Methylchrysene	2B			
3688-53- 3697-24- 3761-53-	3 5-Methylchrysene 3 Ponceau MX	2B	8, Sup 7	1987	
3688-53- 3697-24- 3761-53- 3771-19-	3 5-Methylchrysene 3 Ponceau MX 5 Nafenopin	2B 2B	8, Sup 7 24, Sup 7	1987	
3688-53- 3697-24- 3761-53- 3771-19- 3778-73-	3 5-Methylchrysene 3 Ponceau MX 5 Nafenopin 2 Isophosphamide	2B 2B 3	8, Sup 7 24, Sup 7 26, Sup 7	1987 1987	
3688-53- 3697-24- 3761-53- 3771-19- 3778-73- 3795-88-	3 5-Methylchrysene 3 Ponceau MX 5 Nafenopin 2 Isophosphamide 8 5-(Morpholinomethyl)-3-[(5-nitrofurfurylidene)-amino]-2-oxazolidinone	2B 2B 3 2B	8, Sup 7 24, Sup 7 26, Sup 7 7, Sup 7	1987 1987 1987	
3688-53- 3697-24- 3761-53- 3771-19- 3778-73- 3795-88- 3844-45-	3 5-Methylchrysene 3 Ponceau MX 5 Nafenopin 2 Isophosphamide 8 5-(Morpholinomethyl)-3-[(5-nitrofurfurylidene)-amino]-2-oxazolidinone 9 Brilliant Blue FCF, disodium salt	2B 2B 3 2B 3	8, Sup 7 24, Sup 7 26, Sup 7 7, Sup 7 16, Sup 7	1987 1987 1987 1987	
3688-53- 3697-24- 3761-53- 3771-19- 3778-73- 3795-88- 3844-45- 3902-71-	3 5-Methylchrysene 3 Ponceau MX 5 Nafenopin 2 Isophosphamide 8 5-(Morpholinomethyl)-3-[(5-nitrofurfurylidene)-amino]-2-oxazolidinone	2B 2B 3 2B	8, Sup 7 24, Sup 7 26, Sup 7 7, Sup 7	1987 1987 1987	

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CAS No.	Agent	Group	Volume	Year	Additional information
	Dacarbazine	2B	26, Sup 7	1987	
4548-53-2	Ponceau SX	3	8, Sup 7	1987	
	<i>N</i> -Nitrosomethylvinylamine	2B	17, Sup 7	1987	
	5-Aminoacenaphthene	3	16, Sup 7	1987	
	Guinea Green B	3	16, Sup 7	1987	
	4-Chloro- <i>meta</i> -phenylenediamine	3	27, Sup 7	1987	
	Light Green SF	3	16, Sup 7	1987	
	D & C Red No. 9 1,4-Diamino-2-nitrobenzene	3	Sup 7, 57 Sup 7, 57	1993 1993	
	Dibenzo[<i>a</i> , <i>e</i>) Ifluoranthene	3	Sup 7, 37 Sup 7, 92	2010	
	Glycidyl oleate	3	11, Sup 7	1987	
	Ethyl selenac	3	12, Sup 7	1987	
	1-Nitropyrene	2A	Sup 7, 46, 105	2014	NB: Overall evaluation upgraded to Group 2A with supporting evidence
5580-06-8	Bromochloroacetic acid	2B	101	2013	from other relevant data
	<i>d</i> -Limonene	3	56, 73	1999	NB: Overall evaluation downgraded Group 3 with supporting evidence frother relevant data
6164 09 2	Chlordimeform	3	30, Sup 7	1987	other relevant data
	Citrus Red No. 2	2B	8, Sup 7	1987	
	Sudan Red 7B	3	8, Sup 7	1987	
	CI Acid Orange 3	3	57	1993	
	Sudan Brown RR	3	8, Sup 7	1987	
	CI Acid Red 114	2B	57	1993	
	Aflatoxin M1	2B	56	1993	
6870-67-3		3	10, Sup 7	1987	
	5,6-Cyclopenteno-1,2-benzanthracene	3	92	2010	
	Methylene blue	3	108	2016	
7439-92-1		2B	23, Sup 7	1987	
	Mercury and inorganic mercury compounds Nickel, metallic and alloys	3 2B	58 Sup 7, 49	1993 1990	
	Plutonium	2B 1	78, 100D	2012	
	Thorium-232 and its decay products	1	78, 100D 78, 100D	2012	
	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	
7440-47-3	Chromium, metallic	3	Sup 7, 49	1990	
	Cobalt and cobalt compounds	2B	52	1991	NB: Evaluated as a group
	Cobalt metal without tungsten carbide	2B	86	2006	
140-48-4 br/>	Cobalt metal with tungsten carbide	2A	86	2006	
12070-12-1		2	5.4	1002	
	Sulfur dioxide Glycidyl stearate	3	54	1992 1987	
	Zalcitabine	2B	11, Sup 7 76	2000	
	6-Nitrochrysene	2A	Sup 7, 46, 105	2014	NB: Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data
7519-36-0	<i>N</i> -Nitrosoproline	3	17, Sup 7	1987	nom onici reievani udia
	Dichloroacetylene	3	39, Sup 7, 71	1999	
	Silica, amorphous	3	Sup 7, 68	1997	
	Hydrochloric acid	3	54	1992	
	Strong-inorganic-acid mists containing sulfuric acid (see Acid mists)				
	Hydrogen peroxide	3	36, Sup 7, 71	1999	
	Potassium bromate	2B	Sup 7, 73	1999	
	Sodium chlorite	3	52	1991	
	Selenium and selenium compounds	3	9, Sup 7	1987	
	Toxaphene (Polychlorinated camphenes)	2B	Sup 7, 79	2001	1
	Terpene polychlorinates (Strobane®)	3	5, Sup 7	1987	
	Creosotes	2A	Sup 7, 92	2010	
8002-05-9		3	45	1989	+
	Coal tars (see Coal-tar distillation)		35, Sup 7	1987	+
	Coal-tar distillation	1	92, 100F	2012	
	Acriflavinium chloride	3	13, Sup 7	1987	
	Saccharated iron oxide Bitumens, extracts of steam-refined and air-refined; steam-refined, cracking-residue and	3	2, Sup 7	1987	+
8052-42-4	air-refined bitumens (see Bitumens, occupational exposures)		35, Sup 7	1987	
)52-42-4 <hr/>	Bitumens, occupational exposure to straight-run bitumens and their emissions during road				1
64741-56-6		2B	103	2013	
	Carrageenan, native	3	31, Sup 7	1987	
	Kava extract	2B	108	2016	
9000-38-8	Polytetrafluoroethylene	3	19, Sup 7	1987	
9002-84-0	Delevined allevide	3	19, Sup 7	1987	
9002-84-0 9002-86-2		3	19, Sup 7	1987	
9002-84-0 9002-86-2 9002-88-4	Polyethylene		19, Sup 7	1987	
9002-84-0 9002-86-2 9002-88-4 9002-89-5	Polyethylene Polyvinyl alcohol	3			
9002-84-0 9002-86-2 9002-88-4 9002-89-5 9003-01-4	Polyethylene Polyvinyl alcohol Polyacrylic acid	3	19, Sup 7	1987	
9002-84-0 9002-86-2 9002-88-4 9002-89-5 9003-01-4 9003-07-0	Polyethylene Polyvinyl alcohol Polyacrylic acid Polypropylene	3 3 3	19, Sup 7 19, Sup 7	1987	
9002-84-0 9002-86-2 9002-88-4 9002-89-5 9003-01-4 9003-07-0 9003-20-7	Polyethylene Polyvinyl alcohol Polyacrylic acid Polypropylene Polyvinyl acetate	3 3 3 3	19, Sup 7 19, Sup 7 19, Sup 7	1987 1987	
9002-84-0 9002-86-2 9002-88-4 9002-89-5 9003-01-4 9003-07-0 9003-20-7 9003-22-9	Polyethylene Polyvinyl alcohol Polyacrylic acid Polypropylene Polyvinyl acetate Vinyl chloride-vinyl acetate copolymers	3 3 3 3	19, Sup 7 19, Sup 7 19, Sup 7 19, Sup 7	1987 1987 1987	
9002-84-0 9002-86-2 9002-88-4 9002-89-5 9003-01-4 9003-07-0 9003-20-7 9003-22-9 9003-39-8	Polyethylene Polyvinyl alcohol Polyacrylic acid Polypropylene Polyvinyl acetate Vinyl chloride-vinyl acetate copolymers Polyvinyl pyrrolidone	3 3 3 3 3	19, Sup 7 19, Sup 7 19, Sup 7 19, Sup 7 19, Sup 7, 71	1987 1987 1987 1987	
9002-84-0 9002-86-2 9002-88-4 9002-89-5 9003-01-4 9003-07-0 9003-20-7 9003-22-9 9003-39-8 9003-53-6	Polyethylene Polyvinyl alcohol Polyacrylic acid Polypropylene Polyvinyl acetate Vinyl chloride-vinyl acetate copolymers Polyvinyl pyrrolidone Polystyrene	3 3 3 3 3 3	19, Sup 7 19, Sup 7 19, Sup 7 19, Sup 7 19, Sup 7 19, Sup 7, 71 19, Sup 7	1987 1987 1987 1987 1987	
9002-84-0 9002-86-2 9002-88-4 9002-89-5 9003-01-4 9003-07-0 9003-20-7 9003-29-9 9003-39-8 9003-53-6	Polyethylene Polyvinyl alcohol Polyacrylic acid Polypropylene Polyvinyl acetate Vinyl chloride-vinyl acetate copolymers Polyvinyl pyrrolidone	3 3 3 3 3	19, Sup 7 19, Sup 7 19, Sup 7 19, Sup 7 19, Sup 7, 71	1987 1987 1987 1987	

	ents Classified by the IARC Monographs, Volumes 1–121				
CAS No.	Agent	Group	Volume	Year	Additional information
	Iron-dextran complex	2B	2, Sup 7	1987	
9009-54-	Polyurethane foams	3	19, Sup 7	1987	
	4 Polychloroprene	3	19, Sup 7	1987	
	Vinylidene chloride-vinyl chloride copolymers	3	19, Sup 7	1987	
9011-14-	Polymethyl methacrylate	3	19, Sup 7	1987	
	Polymethylene polyphenyl isocyanate	3	19, Sup 7	1987	
10026-24-	Cobalt sulfate and other soluble cobalt(II) salts	2B	86	2006	
	Iodine-131 (see Radioiodines)				
	Radon-222 and its decay products	1	43, 78, 100D	2012	
	2 Sterigmatocystin	2B	10, Sup 7	1987	
	Parasorbic acid	3	10, Sup 7	1987	
	2 Strontium-90 (see Fission products)				
10380-28-0	Copper 8-hydroxyquinoline	3	15, Sup 7	1987	
10540-29-	Tamoxifen	1	66, 100A	2012	NB: There is also conclusive eviden that tamoxifen reduces the risk of contralateral breast cancer in breast cancer patients
10595-95-0	5 <i>N</i> -Nitrosomethylethylamine	2B	17, Sup 7	1987	
	Chloramine	3	84	2004	
11056-06-7	Bleomycins	2B	26, Sup 7	1987	NB: Overall evaluation upgraded to Group 2B with supporting evidence from other relevant data
12001-79-	Vitamin K substances	3	76	2000	nom oner retevant data
070-12-1 br/>			1	2000	1
7440-48-					
12122-67-		3	12, Sup 7	1987	1
	7 Attapulgite (see Palygorskite)	,	-2, Sup /	1701	1
	Palygorskite (Attapulgite) (long fibres, > 5 micrometres)	2B	68	1997	1
	Palygorskite (Attapulgite) (folig fibres, < 5 micrometres)	3	68	1997	†
	Aurothioglucose	3	13, Sup 7	1997	1
12427-38-2		3	13, Sup 7	1987	1
	5 Cyclochlorotine	3	12, Sup 7	1987	1
12003-40-0	Cyclocinolodine		10, Sup /	1707	NB: Overall evaluation upgraded to
13010-47-4	1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea (CCNU)	2A	26, Sup 7	1987	Group 2A with supporting evidence from other relevant data
13045-94-8	Medphalan	3	9, Sup 7	1987	
13233-32-4	Radium-224 and its decay products	1	78, 100D	2012	
13256-22-9	9 <i>N</i> -Nitrososarcosine	2B	17, Sup 7	1987	
13292-46-	Rifampicin	3	24, Sup 7	1987	
13463-67-	7 Titanium dioxide	2B	47, 93	2010	
13483-18-0	1,2-Bis(chloromethoxy)ethane	3	15; Sup 7, 71	1999	
13909-09-0	5 1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosourea (Methyl-CCNU) (see Semustine)				
13909-09-0	Semustine [1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosourea, Methyl-CCNU]	1	Sup 7, 100A	2012	
13982-63-3	Radium-226 and its decay products	1	78, 100D	2012	
	Wollastonite	3	Sup 7, 68	1997	
13703 17	Wonastonic			1///	NB: Overall evaluation upgraded to
14047-09-	7 3,3',4,4'-Tetrachloroazobenzene	2A	117	In prep.	Group 2A
14484-64-		3	12, Sup 7	1987	araup ara
	Phosphorus-32, as phosphate	1	78, 100D	2012	
	Talc containing asbestiform fibres (see Asbestos)		42, Sup 7	1987	
	Tale not containing asbestos or asbestiform fibres	3	42, Sup 7, 93	2010	
	Talc-based body powder (perineal use of)	2B	93	2010	
			Sup 7, 68,		1
14808-60-7	7 Silica dust, crystalline, in the form of quartz or cristobalite	1	Sup 7, 68, 100C	2012	
14901-08-	7 Cycasin	2B	10, Sup 7	1987	+
15086-94-9		3	15, Sup 7	1987	1
	Radium-228 and its decay products	1	78, 100D	2012	1
15501-74-3	7.1	3	Sup 7, 68	1997	+
15503-86-3		3	10, Sup 7	1987	+
15663-27-		2A	26, Sup 7	1987	NB: Overall evaluation upgraded to Group 2A with supporting evidence
15701.07	5 O O S S I Transchlaush and die		27 5 7	1007	from other relevant data
	5 2,2',5,5'-Tetrachlorobenzidine	3	27, Sup 7	1987	1
	Chromium (III) compounds	3	49	1990	1
1607/1-86-0	6 CI Direct Brown 95 (see Benzidine, dyes metabolized to)				ND O II I I
	<i> $>$ ($<$ i> $>$ N $>$ '-Nitrosonornicotine (NNN) and 4-($<$ i> $>$ N-/i> $>$ -Nitrosomethylamino)-1-(3-4 pyridyl)-1-butanone (NNK)	1	Sup 7, 89, 100E	2012	NB: Overall evaluation upgraded to Group 1 based on mechanistic and relevant data
16568-02-9	B Gyromitrin	3	31, Sup 7	1987	
	B Fluorides (inorganic, used in drinking-water)	3	27, Sup 7	1987	
	9 3-Nitrobenzanthrone	2B	105	2014	NB: Overall evaluation upgraded to Group 2B with supporting evidence from other relevant data
18540-29-9	Chromium (VI) compounds	1	Sup 7, 49, 100C	2012	
18883-66-4	4 Streptozotocin	2B	17, Sup 7	1987	
	9 3-Carbethoxypsoralen	3	40, Sup 7	1987	
	7-Nitrobenz[<i>>a</i> >]anthracene	3	46	1989	
	3 3-Nitroperylene	3	46	1989	
20830-75-5		2B	108	2016	
20830-81-3	Daunomycin	2B	10, Sup 7	1987	
	5 Ethyl tellurac	3	12, Sup 7	1987	
21259-20-	1 T ₂ -Trichothecene	3	31, Sup 7	1987	

	ents Classified by the IARC Monographs, Volumes 1–121				
CAS No.	Agent	Group	Volume	Year	Additional information
	Tetrachlorvinphos	2B	30, Sup 7, 112	2017	
22349-59-3	1,4-Dimethylphenanthrene	3	Sup 7, 92	2010	
22398-80-7	Indium phosphide	2A	86	2006	NB: Overall evaluation upgraded to
22506-53-2	3,9-Dinitrofluoranthene	2B	46, 65, 105	2014	Group 2A
	Symphytine	3	31, Sup 7	1987	
	Oestradiol mustard	3	9, Sup 7	1987	
22975-76-4	4,4'-Dimethylangelicin plus ultraviolet A radiation	3	Sup 7	1987	
23214-92-8	Adriamycin	2A	10, Sup 7	1987	NB: Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data
23246-96-0		2B	10, Sup 7, 82	2002	
	Hycanthone mesylate	3	13, Sup 7	1987	
23537-16-8	Rugulosin Potassium bis(2-hydroxyethyl)dithiocarbamate	3	40, Sup 7 12, Sup 7	1987 1987	
	<pre>coassum bis(2-nydroxyemy)diffinocaroamate <i>cis</i></pre> <pre>cis</pre> <pre>ci</pre>	3	12, Sup 7 11, Sup 7, 71	1999	
	<i><i>>para</i><i-aramid fibrils<="" td=""><td>3</td><td>68</td><td>1997</td><td></td></i-aramid></i>	3	68	1997	
	Vinyl toluene	3	60	1994	
25013-16-5	Butylated hydroxyanisole (BHA)	2B	40, Sup 7	1987	
25038-54-4	·	3	19, Sup 7	1987	
	Acepyrene (3,4-dihydrocyclopenta[<i>cd</i>]pyrene)	3	92	2010	
25812-30-0	Gemfibrozil	3	66	1996	
25962-77-0	<i><i>-trans</i>-2-[(Dimethylamino)methylimino]-5-[2-(5-nitro-2-furyl)-vinyl]-1,3,4-oxadiazole</i>	2B	7, Sup 7	1987	
26148-68-5	A-alpha-C (2-Amino-9 $<$ i> $>$ H $<$ /i $>$ -pyrido[2,3 $-$ <i<math>>b$<$/i$>$]indole)</i<math>	2B	40, Sup 7	1987	
	Ripazepam	3	66	1996	
26471-62-5	Toluene diisocyanates	2B	39, Sup 7, 71	1999	
26782-43-4	Hydroxysenkirkine	3	10, Sup 7	1987	
27208-37-3	Cyclopenta[<i>cd</i>)]pyrene	2A	Sup 7, 92	2010	NB: Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data
28434-86-8	3,3'-Dichloro-4,4'-diaminodiphenyl ether	2B	16, Sup 7	1987	
	Prednimustine	3	50	1990	
29291-35-8	<i>N</i> -Nitrosofolic acid	3	17, Sup 7	1987	
29767-20-2	Teniposide	2A	76	2000	NB: Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data
29975-16-4	Estazolam	3	66	1996	
	<i>N</i> -Nitrosohydroxyproline	3	17, Sup 7	1987	
	Zidovudine (AZT)	2B	76	2000	
33229-34-4	HC Blue No. 2	3	57	1993	
33419-42-0	Etoposide	1	76, 100A	2012	NB: Overall evaluation upgraded to Group 1 based on mechanistic and or relevant data
419-42-0 6663-27-1 11056-06-7	Etoposide in combination with cisplatin and bleomycin	1	76, 100A	2012	
	2-Methylfluoranthene	3	Sup 7, 92	2010	
37319-17-8	Pentosan polysulfate sodium	2B	108	2016	
	<i>N</i> '-Nitrosoanabasine (NAB)	3	37, Sup 7, 89	2007	
	1,2,3-Tris(chloromethoxy)propane	3	15, Sup 7, 71	1999	
	Doxefazepam	3	66	1996	
	1,6-Dinitropyrene	2B	46, 105	2014	
	1,8-Dinitropyrene Indium tin oxide	2B 2B	Sup 7, 46, 105 118	2014 In prop	+
51264-14-3		2B 2B	76	In prep. 2000	+
51481-61-9		3	50	1990	1
	Fenvalerate	3	53	1991	
52645-53-1		3	53	1991	
52918-63-5	Deltamethrin	3	53	1991	
	Carrageenan, degraded (Poligeenan)	2B	31, Sup 7	1987	
53973-98-1	Poligeenan (see Carrageenan, degraded)				
54749-90-5	Chlorozotocin	2A	50	1990	NB: Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data
55557-01-2	<i>N</i> -Nitrosoguvacine	3	Sup 7, 85	2004	
	<i>N</i> -Nitrosoguvacoline	3	Sup 7, 85	2004	
	1,4-Bis(chloromethoxymethyl)benzene	3	15; Sup 7, 71	1999	
57018-52-7	1- <i>tert</i> -Butoxypropan-2-ol	2B	88, 119	In prep.	
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	1	100F	2012	NB: Overall evaluation upgraded to Group 1 based on mechanistic and relevant data
57465-28-8	3,4,5,3',4'-Pentachlorobiphenyl (PCB-126)	1	100F	2012	See Polychlorinated biphenyls, diox
	* • · · · · · · · · · · · · · · · · · ·				like, with a TEF according to WHO
57835-92-4 59277-89-3	4-Nitropyrene	2B 3	46, 105 76	2014	+
	Polybrominated biphenyls	2A	41, Sup 7, 107	2016	NB: Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data, namely mechanistic similarity with polychlorinated biphenyls classified
	i de la companya de	1	i l		
					Group 1
59820-43-8	HC Yellow No. 4	3	57	1993	Group I

CAS No.	ents Classified by the IARC Monographs , Volumes 1–121	Cnown	Volume	Voon	Additional information
865-13-3 	Agent	Group	Volume	Year	Additional information
79217-60-0	Cyclosporine	1	50, 100A	2012	
	Petasitenine	3	31, Sup 7	1987	
	3-(<i>N</i> -Nitrosomethylamino)propionitrile	2B	Sup 7, 85	2004	
	Trp-P-1 (3-Amino-1,4-dimethyl-5 <i>>H</i> -pyrido[4,3- <i>b</i>]indole)	2B	31, Sup 7	1987	
	Trp-P-2 (3-Amino-1-methyl-5 $<$ i>> $Hi>> -pyrido[4,3-<i>>bi>>]indole)$	2B	31, Sup 7	1987	
	6-Nitrobenzo[<i>a</i>]pyrene	3	Sup 7, 46	1989	
64436-13-1	Arsenobetaine and other organic arsenic compounds that are not metabolized in humans	3	100C	2012	
64742-93-4	Bitumens, occupational exposure to oxidized bitumens and their emissions during roofing	2A	103	2013	
65271-80-9	Mitoxantrone	2B	76	2000	+
			35, Sup 7,		
65996-93-2	Coal-tar pitch	1	100F	2012	
66733-21-9	Erionite	1	42, Sup 7, 100C	2012	
67730-10-3	Glu-P-2 (2-Aminodipyrido[1,2- <i>a</i> :3',2'- <i>d</i>]imidazole)	2B	40, Sup 7	1987	
67730-11-4	Glu-P-1 (2-Amino-6-methyldipyrido[1,2- <i>a</i> :3',2'- <i>d</i>]imidazole)	2B	40, Sup 7	1987	
68006-83-7	MeA-alpha-C (2-Amino-3-methyl-9 <i>H</i> -pyrido[2,3- <i>b</i>]indole)	2B	40, Sup 7	1987	
69209 24 0	Cl. 1 21-	1	35, Sup 7,	2012	
68308-34-9	Shale oils	1	100F	2012	
68603-42-9	Coconut oil diethanolamine condensate	2B	101	2013	
69655-05-6	Didanosine	3	76	2000	
	<i>N</i> '-Nitrosoanatabine (NAT)	3	37, Sup 7, 89	2007	
	5-Methylangelicin plus ultraviolet A radiation	3	Sup 7	1987	
	1,3-Dinitropyrene	2B	46, 105	2014	
	IQ (2-Amino-3-methylimidazo[4,5- <i>f</i>]quinoline)	2A	Sup 7, 56	1993	NB: Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data
77094-11-2	MeIQ (2-Amino-3,4-dimethylimidazo[4,5- <i>f</i>] quinoline)	2B	Sup 7, 56	1993	
	MetQ (2-Amino-5,4-dimethylimidazo[4,5-<1>f 1 jquinoline) 3-Chloro-4-(dichloromethyl)-5-hydroxy-2(5 <i>H</i>)-furanone	2B 2B	Sup 7, 56 84	2004	+
	MeIQx (2-Amino-3,8-dimethylimidazo[4,5- <i>>f</i> /i> quinoxaline)	2B	Sup 7, 56	1993	
	Droloxifene	3	66	1996	
	Bromochloroacetonitrile	3	52, 71	1990	
				2004	
	3-(<i>>N</i> -Nitrosomethylamino)propionaldehyde	3	Sup 7, 85		
	Pyrido[3,4- <i>>c</i>) psoralen	3	40, Sup 7	1987	
	7-Methylpyrido[3,4- <i>c</i>]psoralen	3	40, Sup 7	1987	
	Ptaquiloside	3	40, Sup 7	1987	
	Toremifene	3	66	1996	
	<i>Ginkgo biloba</i> extract	2B	108	2016	
	4,4',6-Trimethylangelicin plus ultraviolet A radiation	3	Sup 7	1987	
	<i>N</i> -Methylolacrylamide	3	60	1994	
924-42-5		25	0.4	2010	
	Microcystin-LR	2B	94	2010	
	PhIP (2-Amino-1-methyl-6-phenylimidazo[4,5- <i>b</i>) pyridine)	2B	56	1993	
	3,7-Dinitrofluoranthene	2B	46, 65, 105	2014	
	Pioglitazone	2A 3	108 92	2016	
	Naphtho[1,2- <i>b</i>) Jfluoranthene			2010	
116355-83-0	Fumonisin B _₁	2B	82	2002	
116355-83-0	<i>Fusarium moniliforme</i> , toxins derived from (fumonisin B _₁ , fumonisin	2B	56	1993	
	B _₂ , and fusarin C)				
118399-22-7	Nodularins	3	94	2010	
	Rosiglitazone	3	108	2016	
	Carbon nanotubes, multiwalled MWCNT-7	2B	111	2017	
	Carbon nanotubes, multiwalled, other than MWCNT-7	3	111	2017	
308068-56-6	Carbon nanotubes, single-walled	3	111	2017	
308068-56-6	Multiwalled carbon nanotubes MWCNT-7 (see Carbon nanotubes, multiwalled MWCNT-7)				
308068-56-6	Multiwalled carbon nanotubes other than MWCNT-7 (see Carbon nanotubes, multiwalled, other than MWCNT-7)				
308068-56-6	Single-walled carbon nanotubes (see Carbon nanotubes, single-walled)		1		+
	Silicon carbide, fibrous	2B	111	2017	+
	Silicon carbide, fibrous Silicon carbide whiskers	2B 2A	111	2017	+
407-21-2	Acheson process, occupational exposure associated with	2A 1	111	2017	+
	Acheson process, occupational exposure associated with Acid mists, strong inorganic	1	54, 100F	2017	+
	Acrylic fibres	3	19, Sup 7	1987	+
	Acrylonitrile-butadiene-styrene copolymers	3	19, Sup 7	1987	
	Alcoholic beverages	1	44, 96, 100E	2012	
	<i>Aloe vera</i> , whole leaf extract	2B	108	2016	
	Alpha particles (see Radionuclides)		1		
	Aluminium production	1	34, Sup 7, 92, 100F	2012	
	Anaesthetics, volatile	3	100F 11, Sup 7	1987	+
		2A		1987	+
	Androgenic (anabolic) steroids		Sup 7		+
	Areca nut	1	85, 100E	2012	
	Art glass, glass containers and pressed ware (manufacture of) Auramine production	2A 1	58 Sup 7, 99,	1993 2012	
			100F		NB: Overall evaluation upgraded to
	Benzidine, dyes metabolized to	1	99, 100F	2012	Group 1 based on mechanistic and
	Benzidine, dyes metabolized to Beta particles (see Radionuclides)	1	99, 100F	2012	Group 1 based on mechanistic and relevant data

	gents Classified by the IARC Monographs, Volumes 1–121				
CAS No.	Agent	Group	Volume	Year	Additional information
	Betel quid without tobacco	1	Sup 7, 85, 100E	2012	
	Biomass fuel (primarily wood), indoor emissions from household combustion of	2A	95	2010	
	Bisulfites	3	54	1992	
	Bitumens, occupational exposure to hard bitumens and their emissions during mastic	2B	103	2013	
	asphalt work				
	BK polyomavirus (BKV)	2B	104	2014	
	Boot and shoe manufacture and repair (see Leather dust, Benzene)	2D	25, Sup 7	1987	
	Bracken fern Calcium carbide production	2B 3	40, Sup 7 92	1987 2010	
	Carbon electrode manufacture	2A	92	2010	
	Carpentry and joinery	2B	25, Sup 7	1987	
	Ceramic implants	3	74	1999	
	Chimney sweeping (see Soot)		92	2010	
	Chlorinated drinking-water	3	52	1991	
	Chlorinated paraffins of average carbon chain length C12 and average degree of	2B	48	1990	
	chlorination approximately 60%	2.0	40	1770	
	Chlorophenols (see Polychlorophenols)				
	Chlorophenoxy herbicides	2B	41, Sup 7	1987	
	<pre><i>Contain sinensis</i> (infection with)</pre>	1	61, 100B	2012	
	Coal dust	3	68 Sup 7, 92,	1997	+
	Coal gasification	1	Sup 7, 92, 100F	2012	
	Coal, indoor emissions from household combustion of	1	95, 100E	2012	
	Coffee (drinking)	3	51, 116	In prep.	NB: There is <i>evidence sugges. lack of carcinogenicity</i> in hun of coffee drinking for cancers of pancreas, liver, female breast, ute endometrium, and prostate. Invassociations with coffee drinking been observed with cancers of the land uterine endometrium.
	Coke production	1	Sup 7, 92, 100F	2012	
	Continuous glass filament (see Glass filament)		1001		
	Dental materials	3	74	1999	
	Diesel engine exhaust (see Engine exhaust, diesel)				
					NB: Overall evaluation upgraded to
	Diesel fuel, marine	2B	45	1989	Group 2B with supporting evidence from other relevant data
	Diesel fuels, distillate (light)	3	45	1989	
	Dry cleaning (occupational exposures in) Dyes metabolized to benzidine (see Benzidine, dyes metabolized to)	2B	63	1995	
	Electric fields, extremely low-frequency	3	80	2002	
	Electric fields, static	3	80	2002	
	Engine exhaust, diesel	1	46, 105	2014	
	Engine exhaust, gasoline	2B	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	
	Estrogen-progestogen oral contraceptives (combined)	1	72, 91, 100A	2012	NB: There is also convincing eviden in humans that these agents confer a protective effect against cancer in the endometrium and ovary
	Firefighter (occupational exposure as a)	2B	98	2010	
	Fission products, including strontium-90	1	100D	2012	
	Flat-glass and specialty glass (manufacture of)	3	58	1993	
	Fluorescent lighting	3	55	1992	
	Fluoro-edenite fibrous amphibole	1	111	2017	
	Foreign bodies (see Ceramic implants, Dental materials, Implanted foreign bodies, Metallic implants, Organic polymeric materials, Orthopaedic implants, Polymeric implants, Silicone breast implants)				
	Frying, emissions from high-temperature	2A	95	2010	
	Fuel oils, distillate (light)	3	45	1989	
	Fuel oils, residual (heavy) Furniture and cabinet making (see Wood dust)	2B	45 25, Sup 7	1989 1987	
	<i>Fusarium graminearum</i> , <i>F. culmorum</i> , and <i>F. crookwellense</i> , toxins derived from (zearalenone, deoxynivalenol, nivalenol, and fusarenone X)	3	Sup 7, 56	1993	
	<i>Fusarium sporotrichioides</i> , toxins derived from (T-2 toxin)	3	56	1993	
	Gamma-Radiation (see X- and Gamma-Radiation) Gasoline	2B	45	1989	NB: Overall evaluation upgraded to Group 2B with supporting evidence from other relevant data
	Gasoline engine exhaust (see Engine exhaust, gasoline)				
	Glass filament, continuous	3	43, 81	2002	
	Goldenseal root powder	2B	108	2016	
		1	1, Sup 7, 100D	2012	
	Haematite mining (underground)	1			
	Haematite mining (underground) Hair colouring products (personal use of)	3	57, 99	2010	
	Hair colouring products (personal use of) Hairdresser or barber (occupational exposure as a)		57, 99	2010	
	Hair colouring products (personal use of) Hairdresser or barber (occupational exposure as a) <i>Helicobacter pylori</i> (infection with)	3 2A 1	57, 99 61, 100B	2010 2012	
	Hair colouring products (personal use of) Hairdresser or barber (occupational exposure as a)	3 2A	57, 99	2010	

`	gents Classified by the IARC Monographs, Volumes 1–121				
CAS No.	Agent	Group	Volume	Year	Additional information
	Hexachlorocyclohexanes High-temperature frying (see Frying)	2B	20, Sup 7	1987	
	Household combustion of biomass fuel (see Biomass fuel, indoor emissions from				
	household combustion of)				
	Household combustion of coal (see Coal, indoor emissions from household combustion)				
	Human herpesvirus type 4 (see Epstein-Barr virus)				
	Human herpesvirus type 8 (see Kaposi sarcoma herpesvirus)				
	Human immunodeficiency virus type 1 (infection with)	1	67, 100B	2012	
	Human immunodeficiency virus type 2 (infection with)	2B	67	1996	
	Human papillomavirus genus beta (except types 5 and 8) and genus gamma	3	90, 100B	2012	
	Human papillomavirus type 68	2A	100B	2012	ND TO HDV
	Human papillomavirus types 16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59	1	64, 90, 100B	2012	NB: The HPV types that have been classified as carcinogenic to humans differ by an order of magnitude in ri- for cervical cancer
	Human papillomavirus types 26, 53, 66, 67, 70, 73, 82	2B	100B	2012	Tor corvicus custos
					NB: Classified by phylogenetic anal
	Human papillomavirus types 30, 34, 69, 85, 97	2B	100B	2012	to the HPV genus alpha types classi in Group 1
	Human papillomavirus types 5 and 9 (in patients with anidermodycologic verticiformic)	2B	100B	2012	•
	Human papillomavirus types 5 and 8 (in patients with epidermodysplasia verruciformis)				
	Human papillomavirus types 6 and 11	3	90, 100B	2012	
	Human T-cell lymphotropic virus type I	1	67, 100B	2012	
	Human T-cell lymphotropic virus type II Hypochlorite salts	3	67 52	1996 1991	
	Implanted foreign bodies of metallic chromium or titanium and of cobalt-based,				
	chromium-based, and titanium-based alloys, stainless steel and depleted uranium	3	74	1999	
	Implanted foreign bodies of metallic cobalt, metallic nickel and an alloy powder	2B	74	1999	
	containing 66-67% nickel, 13-16% chromium, and 7% iron				
	Insulation glass wool	3	43, 81	2002	
	Involuntary smoking (see Tobacco smoke, second-hand)		1000	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	
	Isopropyl oils	3	15, Sup 7, 71	1999	
	JC polyomavirus (JCV)	2B	104	2014	
	Jet fuel	3	45	1989	
	Kaposi sarcoma herpesvirus	1	70, 100B	2012	
	Lead compounds, inorganic	2A	Sup 7, 87	2006	
	Lead compounds, organic	3	23, Sup 7, 87	2006	metabolized at least in part, to ionic both in humans and animals. To the extent that ionic lead, generated fron organic lead, is present in the body, will be expected to exert the toxicitie associated with inorganic lead
	Leather dust	1	100C	2012	8
	Leather goods manufacture	3	25, Sup 7	1987	
	Leather tanning and processing	3	25, Sup 7	1987	
	Lumber and sawmill industries (including logging)	3	25, Sup 7	1987	
	Madder root (<i>Rubia tinctorum</i>)	3	82 Sup 7, 57, 99,	2002	
	Magenta production	1	100F	2012	
	Magnetic fields, extremely low-frequency	2B	80	2002	
	Magnetic fields, static	3	80	2002	
<u> </u>	Malaria (caused by infection with <i>Plasmodium falciparum</i> in holoendemic areas)	2A	104	2014	
	Mate, not very hot (drinking)	3	51, 116	In prep.	
			1		
	Mate, hot (see Very hot beverages)	2Δ	104	2014	1
		2A 3	104 54	2014 1992	
	Mate, hot (see Very hot beverages) Merkel cell polyomavirus (MCV)				
	Mate, hot (see Very hot beverages) Merkel cell polyomavirus (MCV) Metabisulfites Metallic implants prepared as thin smooth films Methylmercury compounds	3 2B 2B	54 74 58	1992 1999 1993	NB: Evaluated as a group
	Mate, hot (see Very hot beverages) Merkel cell polyomavirus (MCV) Metabisulfites Metallic implants prepared as thin smooth films Methylmercury compounds <i>Microcystis</i> extracts	3 2B 2B 3	54 74 58 94	1992 1999 1993 2010	NB: Evaluated as a group
	Mate, hot (see Very hot beverages) Merkel cell polyomavirus (MCV) Metabisulfites Metallic implants prepared as thin smooth films Methylmercury compounds	3 2B 2B	54 74 58 94 33, Sup 7	1992 1999 1993	NB: Evaluated as a group
	Mate, hot (see Very hot beverages) Merkel cell polyomavirus (MCV) Metabisulfites Metallic implants prepared as thin smooth films Methylmercury compounds <i>Microcystis</i> extracts	3 2B 2B 3	54 74 58 94 33, Sup 7 33, Sup 7,	1992 1999 1993 2010	NB: Evaluated as a group
	Mate, hot (see Very hot beverages) Merkel cell polyomavirus (MCV) Metabisulfites Metallic implants prepared as thin smooth films Methylmercury compounds <i>Metallic implants prepared as thin smooth films Methylmercury compounds <i>Microcystis</i> extracts Mineral oils, highly-refined</i>	3 2B 2B 3 3	54 74 58 94 33, Sup 7	1992 1999 1993 2010 1987	NB: Evaluated as a group
	Mate, hot (see Very hot beverages) Merkel cell polyomavirus (MCV) Metabisulfites Metallic implants prepared as thin smooth films Methylmercury compounds <i>Microcystis</i> extracts Mineral oils, highly-refined Mineral oils, untreated or mildly treated Modacrylic fibres	3 2B 2B 3 3	54 74 58 94 33, Sup 7 33, Sup 7, 100F 19, Sup 7	1992 1999 1993 2010 1987 2012	NB: Evaluated as a group
	Mate, hot (see Very hot beverages) Merkel cell polyomavirus (MCV) Metabisulfites Metallic implants prepared as thin smooth films Methylmercury compounds <i>Microcystis</i> extracts Mineral oils, highly-refined Mineral oils, untreated or mildly treated	3 2B 2B 3 3 1	54 74 58 94 33, Sup 7 33, Sup 7, 100F	1992 1999 1993 2010 1987 2012	NB: Evaluated as a group NB: Overall evaluation upgraded to Group 1 with supporting evidence fother relevant data
	Mate, hot (see Very hot beverages) Merkel cell polyomavirus (MCV) Metabisulfites Metallic implants prepared as thin smooth films Methylmercury compounds <i>>Methylmercury compounds <i>Mineral oils, highly-refined Mineral oils, untreated or mildly treated Modacrylic fibres MOPP and other combined chemotherapy including alkylating agents Neutron radiation</i></i>	3 2B 2B 3 3 1 1 3	54 74 58 94 33, Sup 7 33, Sup 7, 100F 19, Sup 7 Sup 7, 100A 75, 100D	1992 1999 1993 2010 1987 2012 1987 2012 2012	NB: Overall evaluation upgraded to Group 1 with supporting evidence f
	Mate, hot (see Very hot beverages) Merkel cell polyomavirus (MCV) Metabisulfites Metallic implants prepared as thin smooth films Methylmercury compounds <i>>Mineral cils, highly-refined Mineral cils, untreated or mildly treated Modacrylic fibres MOPP and other combined chemotherapy including alkylating agents Neutron radiation Nickel compounds</i>	3 2B 2B 3 3 1	54 74 58 94 33, Sup 7 33, Sup 7, 100F 19, Sup 7, 100A 75, 100D Sup 7, 49, 100C	1992 1999 1993 2010 1987 2012 1987 2012 2012	NB: Overall evaluation upgraded to Group 1 with supporting evidence f
	Mate, hot (see Very hot beverages) Merkel cell polyomavirus (MCV) Metabisulfites Metallic implants prepared as thin smooth films Methylmercury compounds <i>>Methylmercury compounds <i>Mineral oils, highly-refined Mineral oils, untreated or mildly treated Modacrylic fibres MOPP and other combined chemotherapy including alkylating agents Neutron radiation Nickel compounds Nickel refining (see Nickel compounds)</i></i>	3 2B 2B 3 3 1 3 1	54 74 58 94 33, Sup 7 33, Sup 7, 100F 19, Sup 7 Sup 7, 100A 75, 100D Sup 7, 49, 100C	1992 1999 1993 2010 1987 2012 1987 2012 2012 2012	NB: Overall evaluation upgraded to Group 1 with supporting evidence f
	Mate, hot (see Very hot beverages) Merkel cell polyomavirus (MCV) Metabisulfites Metallic implants prepared as thin smooth films Methylmercury compounds <i>>Methylmercury compounds <i>Mineral oils, highly-refined Mineral oils, untreated or mildly treated Modacrylic fibres MOPP and other combined chemotherapy including alkylating agents Neutron radiation Nickel compounds Nickel refining (see Nickel compounds) Nitrate or nitrite (ingested) under conditions that result in endogenous nitrosation</i></i>	3 2B 2B 3 3 1 3 1	54 74 58 94 33, Sup 7 33, Sup 7, 100F 19, Sup 7 Sup 7, 100A 75, 100D Sup 7, 49, 100C 11	1992 1999 1993 2010 1987 2012 1987 2012 2012 2012 2012	NB: Overall evaluation upgraded to Group 1 with supporting evidence f
	Mate, hot (see Very hot beverages) Merkel cell polyomavirus (MCV) Metabisulfites Metallic implants prepared as thin smooth films Methylmercury compounds <i>Metallic implants prepared as thin smooth films Methylmercury compounds <i>Microcystis</i> extracts Mineral oils, highly-refined Mineral oils, untreated or mildly treated Modacrylic fibres MOPP and other combined chemotherapy including alkylating agents Neutron radiation Nickel compounds Nickel refining (see Nickel compounds) Nitrate or nitrite (ingested) under conditions that result in endogenous nitrosation Non-arsenical insecticides (occupational exposures in spraying and application of)</i>	3 2B 2B 3 3 1 3 1	54 74 58 94 33, Sup 7 33, Sup 7, 100F 19, Sup 7 Sup 7, 100A 75, 100D Sup 7, 49, 100C	1992 1999 1993 2010 1987 2012 1987 2012 2012 2012	NB: Overall evaluation upgraded to Group 1 with supporting evidence f
	Mate, hot (see Very hot beverages) Merkel cell polyomavirus (MCV) Metabisulfites Metallic implants prepared as thin smooth films Methylmercury compounds <i>Mineral cils, highly-refined Mineral cils, untreated or mildly treated Modacrylic fibres MOPP and other combined chemotherapy including alkylating agents Neutron radiation Nickel compounds Nickel refining (see Nickel compounds) Nitrate or nitrite (ingested) under conditions that result in endogenous nitrosation Non-arsenical insecticides (occupational exposures in spraying and application of) Oestrogen (see Estrogen)</i>	3 2B 2B 3 3 1 1 1 1 1 2A 2A	54 74 58 94 33, Sup 7 33, Sup 7, 100F 19, Sup 7 Sup 7, 100A 75, 100D Sup 7, 49, 100C 11 94 53	1992 1999 1993 2010 1987 2012 1987 2012 2012 2012 2012 1976 2010 1991	NB: Overall evaluation upgraded to Group 1 with supporting evidence f
	Mate, hot (see Very hot beverages) Merkel cell polyomavirus (MCV) Metabisulfites Metallic implants prepared as thin smooth films Methylmercury compounds <i>>Mineral cils, highly-refined Mineral cils, untreated or mildly treated Modacrylic fibres MOPP and other combined chemotherapy including alkylating agents Neutron radiation Nickel compounds Nickel refining (see Nickel compounds) Nitrate or nitrite (ingested) under conditions that result in endogenous nitrosation Non-arsenical insecticides (occupational exposures in spraying and application of) Oestrogen (see Estrogen) <i <="" felineus="" i="" opisthorchis=""> <i (infection="" td="" with)<=""><td>3 2B 2B 3 3 1 3 1</td><td>54 74 58 94 33, Sup 7 33, Sup 7, 100F 19, Sup 7 Sup 7, 100A 75, 100D Sup 7, 49, 100C 11 94 53</td><td>1992 1999 1993 2010 1987 2012 1987 2012 2012 2012 2012 1976 2010 1991</td><td>NB: Overall evaluation upgraded to Group 1 with supporting evidence fi</td></i></i></i>	3 2B 2B 3 3 1 3 1	54 74 58 94 33, Sup 7 33, Sup 7, 100F 19, Sup 7 Sup 7, 100A 75, 100D Sup 7, 49, 100C 11 94 53	1992 1999 1993 2010 1987 2012 1987 2012 2012 2012 2012 1976 2010 1991	NB: Overall evaluation upgraded to Group 1 with supporting evidence fi
	Mate, hot (see Very hot beverages) Merkel cell polyomavirus (MCV) Metabisulfites Metallic implants prepared as thin smooth films Methylmercury compounds <i>Mineral cils, highly-refined Mineral cils, untreated or mildly treated Modacrylic fibres MOPP and other combined chemotherapy including alkylating agents Neutron radiation Nickel compounds Nickel refining (see Nickel compounds) Nitrate or nitrite (ingested) under conditions that result in endogenous nitrosation Non-arsenical insecticides (occupational exposures in spraying and application of) Oestrogen (see Estrogen)</i>	3 2B 2B 3 3 1 1 1 1 1 2A 2A	54 74 58 94 33, Sup 7 33, Sup 7, 100F 19, Sup 7 Sup 7, 100A 75, 100D Sup 7, 49, 100C 11 94 53	1992 1999 1993 2010 1987 2012 1987 2012 2012 2012 2012 1976 2010 1991	NB: Overall evaluation upgraded to Group 1 with supporting evidence f

	gents Classified by the IARC Monographs , Volumes 1–121	C	\$7-1	37	Addistruction of
CAS No.	Agent Orthopaedic implants of complex composition and cardiac pacemakers	Group 3	Volume 74	Year 1999	Additional information
				1	
	Outdoor air pollution	1	109	2016	
	Outdoor air pollution, particulate matter in	1	109	2016	
	Paint manufacture (occupational exposure in)	3	47	1989	
	Painter (occupational exposure as a)	1	47, 98, 100F	2012	
	Particulate matter in outdoor air pollution (see Outdoor air pollution, particulate matter in)				
	Paving and roofing with coal-tar pitch (see Coal-tar pitch)		35, Sup 7, 92, 100F	2010	
	Petroleum refining (occupational exposures in)	2A	45	1989	
	Petroleum solvents	3	47	1989	
	Phenacetin, analgesic mixtures containing	1	Sup 7, 100A	2012	
	Pickled vegetables (traditional Asian)	2B	56	1993	
	Polychlorinated biphenyls, dioxin-like, with a Toxicity Equivalency Factor (TEF) according to WHO (PCBs 77, 81, 105, 114, 118, 123, 126, 156, 157, 167, 169, 189)	1	107	2016	NB: Overall evaluation upgraded to Group 1 with strong supporting evic from other relevant data
	Polychlorinated dibenzofurans (see 2,3,4,7,8-Pentachlorodibenzofuran)	3	69	1997	nom other relevant data
	Polychlorinated dibenzo- <i>para</i> -dioxins (other than 2,3,7,8-tetrachlorodibenzo-	3	69	1997	
	<i>>ci>para</i> -dioxin) Polychlorophenols and their sodium salts (mixed exposures) (see Pentachlorophenol;	2B	53, 71	1999	
	2,4,6-Trichlorophenol) Polymeric implant prepared as thin smooth films (with the exception of poly-glycolic				
	acid)	2B	74	1999	
	Printing inks	3	65	1996	
	Printing processes (occupational exposures in)	2B	65	1996	
	Processed meat (consumption of)	1	114	2018 online	
	Proflavine salts	3	24, Sup 7	1987	
	Progestins	2B	Sup 7	1987	1
	- C				
	Progestogen-only contraceptives Pulp and paper manufacture	2B 3	72 25, Sup 7	1999 1987	
	Radiofrequency electromagnetic fields	2B	102	2013	
	Radioiodines, including iodine-131	1 1	78, 100D	2013	
	Radionuclides, alpha-particle-emitting, internally deposited	1	78, 100D	2012	NB: Specific radionuclides for which there is sufficient evidence in human are also listed individually as Group
	Radionuclides, beta-particle-emitting, internally deposited	1	78, 100D	2012	agents NB: Specific radionuclides for which there is sufficient evidence in human are also listed individually as Group
	Ded work (commercial of	24	114	2018 1:	agents
	Red meat (consumption of)	2A		2018 online	
	Refractory ceramic fibres	2B	43, 81	2002	
	Rock (stone) wool	3	43, 81	2002	
	Rubber manufacturing industry	1	28, Sup 7,	2012	
			100F		
	Salted fish, Chinese-style	1	56, 100E	2012	
	<i>Schistosoma haematobium</i> (infection with)	1	61, 100B	2012	
	<i>Schistosoma japonicum</i> (infection with)	2В	61	1994	
	<i>Schistosoma mansoni</i> (infection with)	3	61	1994	
	Shiftwork that involves circadian disruption	2A	98	2010	
	Silicone breast implants	3	74	1999	
	Slag wool	3	43, 81	2002	1
	Solar radiation	1	55, 100D	2002	
	Soot (as found in occupational exposure of chimney sweeps)	1	35, Sup 7, 92, 100F	2012	
	Special-purpose fibres such as E-glass and '475' glass fibres	2B	81	2002	
	Sulfites	3	54	1992	
	Sunlamps and sunbeds (see Ultraviolet-emitting tanning devices)	+ -		1772	1
	Surgical implants (see Ceramic implants, Dental materials, Implanted foreign bodies,	1		1	
	Metallic implants, Organic polymeric materials, Orthopaedic implants, Polymeric		1		
	Metallic implants, Organic polymeric materials, Orthopaedic implants, Polymeric implants, Silicone breast implants)			 	
	Metallic implants, Organic polymeric materials, Orthopaedic implants, Polymeric implants, Silicone breast implants) SV40 polyomavirus	3	104	2014	
	Metallic implants, Organic polymeric materials, Orthopaedic implants, Polymeric implants, Silicone breast implants)	3 3	104 51	2014 1991	
	Metallic implants, Organic polymeric materials, Orthopaedic implants, Polymeric implants, Silicone breast implants) SV40 polyomavirus				
	Metallic implants, Organic polymeric materials, Orthopaedic implants, Polymeric implants, Silicone breast implants) SV40 polyomavirus Tea Tetrakis(hydroxymethyl)phosphonium salts	3	51	1991	
	Metallic implants, Organic polymeric materials, Orthopaedic implants, Polymeric implants, Silicone breast implants) SV40 polyomavirus Tea Tetrakis(hydroxymethyl)phosphonium salts Textile manufacturing industry (work in)	3 3 2B	51 48, 71 48	1991 1999 1990	
	Metallic implants, Organic polymeric materials, Orthopaedic implants, Polymeric implants, Silicone breast implants) SV40 polyomavirus Tea Tetrakis(hydroxymethyl)phosphonium salts Textile manufacturing industry (work in) Tobacco smoke, second-hand	3 3 2B 1	51 48, 71 48 83, 100E	1991 1999 1990 2012	
	Metallic implants, Organic polymeric materials, Orthopaedic implants, Polymeric implants, Silicone breast implants) SV40 polyomavirus Tea Tetrakis(hydroxymethyl)phosphonium salts Textile manufacturing industry (work in)	3 3 2B	51 48, 71 48 83, 100E 83, 100E	1991 1999 1990	
	Metallic implants, Organic polymeric materials, Orthopaedic implants, Polymeric implants, Silicone breast implants) SV40 polyomavirus Tea Tetrakis(hydroxymethyl)phosphonium salts Textile manufacturing industry (work in) Tobacco smoke, second-hand	3 3 2B 1	51 48, 71 48 83, 100E	1991 1999 1990 2012	

118# evidence for ocular melanoma in welders; #Volume 118 concluded that ultraviolet emit from welding are carcinogenic to humans (G 1). There is sufficient evidence in humans for	CAS No.	Agent	Group	Volume	Year	Additional information
Urethane (see Ethyl carbamate) Very hot beverages at above 65 °C (drinking) Welding fumes 1 49, 118 In prep. Wood dust 1 62, 100C 2012 Wood smoke (see Biomass fuel, indoor emissions from household combustion)		Ultraviolet radiation (wavelengths 100-400 nm, encompassing UVA, UVB, and UVC)	1		In prep.	#Volume 118 concluded that ultraviolet emissi from welding are carcinogenic to humans (Grc 1). There is <i>sufficient evidence</i> in humans for carcinogenicity of ultraviolet emissions from
Very hot beverages at above 65 °C (drinking) 2A 116 In prep. Welding fumes 1 49, 118 In prep. Wood dust 1 62, 100C 2012 Wood smoke (see Biomass fuel, indoor emissions from household combustion) 2A 116 In prep.		Ultraviolet-emitting tanning devices	1	100D	2012	
Welding fumes 1 49, 118 In prep. Wood dust 1 62, 100C 2012 Wood smoke (see Biomass fuel, indoor emissions from household combustion)		Urethane (see Ethyl carbamate)				
Wood dust 1 62, 100C 2012 Wood smoke (see Biomass fuel, indoor emissions from household combustion)		Very hot beverages at above 65 °C (drinking)	2A	116	In prep.	
Wood smoke (see Biomass fuel, indoor emissions from household combustion)		Welding fumes	1	49, 118	In prep.	
		Wood dust	1	62, 100C	2012	
X- and Gamma-Radiation 1 75, 100D 2012		Wood smoke (see Biomass fuel, indoor emissions from household combustion)				
		X- and Gamma-Radiation	1	75, 100D	2012	
		Last update 18 April 2018				