4.8 List of carcinogenic and suspected carcinogenic compounds

This appendix contains an overview of compounds which on the basis of carcinogenic, mutagenic and/or teratogenic properties have been classified with respect to carcinogenicity by the European Community (EC) or by the International Agency for Research on Cancer (IARC).

Within the EC classification system, the coding means:

- 1C carcinogenic to humans on the grounds of epidemiological research findings;
- 2C carcinogenic to humans as based on evidence in particular from chronic animal testing;
- 3C suspected of being carcinogenic to humans;
- 4C no or too little evidence available for classification into one of the above-mentioned classes.

The IARC coding comprises compounds which are:

- 1 carcinogenic to humans;
- 2A 'probably' carcinogenic to humans;
- 2B 'possibly' carcinogenic to humans;
- 3 cannot be classified with respect to being carcinogenic to humans;
- 4 probably not carcinogenic to humans.

The substances that are included in the table without an EC or IARC classification are under consideration. The coding between parentheses refers to the relevant EC file number, where:

- CXXX information available on carcinogenicity of the substance
- AXXX modification of the classification is under consideration
- SXXX solvent
- PXXX pesticide

Sources

The information is based on: 'H. Roelfzema, Min. van WVC, Directoraat-Generaal van de Volksgezondheid, Directie Voeding en Veiligheid van produkten, June 1991'.

The compounds given in *italics* in Appendix 8 are carcinogenic according to Appendix A of the Compulsory Registration of Hazardous Substances, module A5 of the Occupational Health and Safety Information System for Toxic Substances, November 1991.

CAS number	Name	Synonym	Comment	EC	IARC
	A				
[30560-19-1]	Acephate			4C	
[75-07-0]	Acetaldehyde			3C	2B
[60-35-5]	Acetamide				2B
[79-06-1]	*Acrylamide*			2C	2B
[107-13-1]	*Acrylonitrile*			2C	2A
[23214-92-8]	*Adriamycine*	doxorubicin			2A
	Aflatoxins				1
[1162-65-8]	• AFB1				
[7220-81-7]	• *AFB2*				
[1165-39-5]	• *AFG1*				
[7241-98-7]	• *AFG2*	a-(5-Nitro-2-furyl)methylene -2-furanacetamide			2B
[15972-68-8]	Alachlor	2-chloro-N-(2,6-diethyl-phenyl)-N-(methoxymethyl) acetamide		3C	
[309-00-2]	Aldrin			3C	3
[26148-68-5]	A-alpha-C				2B
[712-68-5]	2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole				2B
[60-09-3]	p-Aminoazobenzene				2B
[97-56-3]	*o-Aminoazotoluene*	solvent yellow 3		2C	2B
[92-67-1]	*4-Aminobiphenyl (+salts)*	diphenylamine		1C	1
		xenylamine			
		4-aminodiphenyl			
[61-82-5]	Amitrole	3-amino-1-H-1,2,4-triazole		3C	2B
[62-53-3]	Aniline				
[90-04-0]	o-Anisidine				2B
[104-94-9]	p-Anisidine			(A012)	
[1309-64-4]	Antimony trioxyde			(C024)	
[86-88-4]	Antu	N-1-naphtylthiourea		3C	
[140-57-8]	Aramite	2-chloroethyl 1-methyl-2-(p-tertiary-butylphenoxy) ethyl sulphite			2B
[64742-03-6]	*Aromatic extracts distillate*		see PAH		
[64742-03-6]	*Aromatics extracts from mineral oil distillates*		see PAH		
	Arsenic and arsenic compounds				1
[7440-38-2]	• *Arsenic*			1C	1
[7778-39-4]	• *Arsenic acid (+salts)*				1
[1303-28-2]	• *Arsenic pentoxide*				1
[1327-53-3]	• *Arsenic trioxide*			1C	1
[7778-44-1]	• Calcium arsenate				1
[7784-40-9]	• Lead acetate				1
[7784-41-0]	• Potassium arsenate				1
[13464-35-2]	• Potassium arsenite				1
[7631-89-2]	• Sodium arsenate				1
[7784-46-5]	• Sodium arsenite				1
[1332-21-4]	***Asbestos all types***			1C	1
[77536-66-4]	• actinolite			1C	1
[12172-73-5]	• amosite			1C	1
[77536-67-5]	• Anthophyllite			1C	1
[12001-29-5]	• chrysotile			1C	1
[12001-28-4]	• crocidolite			1C	1
[77536-68-6]	• tremolite			1C	1
[1912-24-9]	Atrazine	6-chloro-N-ethyl-N'-(1-methyethyl)-1,3,5-trazine-2,4-diamine		3C	
[492-80-8]	Auramine			3C	2B
[151-56-4]	Azaserine	o-diazo-acetyl-L-serine			2B
[446-86-6]	*Azathioprine*				1
[151-56-4]	*Aziridine*	ethylenimine		3C	3
[78-67-1]	2,2'- Azobis(2-methyl-propane nitril)			(F005)	
	B				
[17804-35-2]	Benomyl	[1-[(butylamino)carbonyl]-1H-benz-imidazole-2-yl]-methylcarbamate		(P213)	
[98-87-3]	Benzalchloride	(dichloromethyl) benzene-(a,a-dichlorotoluene)		3C	2B
[71-43-2]	*Benzene*			1C	1
[92-87-5]	*Benzidine (+salts)*	[1,1'-biphenyl]-4,4'-diamine		1C	1
[56-55-3]	*Benzo(a)anthracene*		see PAH		
[50-32-8]	*Benzo(a)pyrene*		see PAH		
[205-99-2]	*Benzo(b)fluoroanthene*		see PAH		
[205-82-3]	*Benzo(j)fluoranthene*		see PAH		
[207-08-7]	*Benzo(k)fluoranthene*		see PAH		
[98-07-7]	Benzotrichloride	a,a,a-trichlorotoluene			2B

CAS number	Name	Synonym	Comment	EC	IARC
[98-88-4]	Benzoyl chloride				2B
[100-44-7]	Benzyl chloride			3C	2B
[1694-09-3]	Benzyl violet 4B			3C	2B
	Beryllium and beryllium compounds			2C	2A
[7440-41-7]	• *Beryllium*			2C	2A
[7787-47-5]	• *Beryllium dichloride*			2C	
[7787-49-7]	• *Beryllium difluoride*			2C	
[13598-15-7]	• *Beryllium nitrogen phosphate*			2C	
[1304-56-9]	• *Beryllium oxide*			2C	2A
[13510-49-1]	• *Beryllium sulphate*			2C	2A
[39413-47-3]	• Zinc beryllium silicate			2A	
[485-31-4]	Binapacryl	3-methyl-2-butenic acid 2-(1-methylpropyl-4,6-dinitrophenyl ester		(P021)	
[101-90-6]	1,3-Bis(2,3-epoxypropoxy) benzene			(….)	
[111-44-4]	Bis(2-chloroethyl)ether				
[542-88-1]	*Bis(chloromethyl)ether*			1C	1
[154-93-8]	*Bischloroethylnitrosourea*	carmustine			2A
[8052-42-4]	Bitumen		see PAH		
[11056-06-7]	*Bleomycine*				2B
[..]	Bracken				2B
[1689-84-5]	Bromoxynil	3,5-dibromo-4-hydroxy-benzonitrile		(P025)	
[55-98-1]	*Busulfan*	(see Myleran)			
[106-99-0]	*Buta-1,3-diene*			2C	2B
[96-48-0]	Butyrolacton-?			(….)	
[3068-88-0]	Butyrolacton-ß				2B
	C				
	Cadmium compounds				
[7440-43-9]	• Cadmium			(….)	
[10108-64-2]	• *Cadmium chloride*			2C	2A
[542-83-6]	• Cadmium cyanide			(….)	
[7790-79-6]	• Cadmium fluoride			(….)	
[..]	• Cadmium fluorosilicate			(….)	
[4464-23-7]	• Cadmium formate			(….)	
[7790-80-9]	• Cadmium iodide			(….)	
[1306-19-0]	• *Cadmium oxide*			2A	
[10124-36-4]	• *Cadmium sulphate*			2A	
[1306-23-6]	• Cadmium sulphide			2A	
[13765-19-0]	*Calcium chromate*		(see Chromium (VI)-compounds		
[8001-35-2]	Camphechlor	toxaphene		3C	2B
[2425-06-1]	*Captafol*			2C	
[133-06-2]	Captan	N-(trichloromethylthio)-4-cyclohexene-1,2-dicarboximide		3C	3
[6804-07-5]	*Carbadox*	2-chinoxalinyl methylene) hydrazine carboxylic acid methyl ester N,N',dioxide		2C	
[63-25-2]	Carbaryl	1-naphtyl-N-methyl carbamate		4C	3
[10605-21-7]	Carbendazim	2-benzimidazool methyl-carbamate		(P237)	
[75-15-0]	Carbon disulphide	Carbon disulphide			2B
[56-23-5]	Carbon tetrachloride	tetrachloride carbon, tetra		3C	2B
[154-93-8]	Carmustine		(see Bischloro ethylnitros-ourea)		
[9000-07-1]	Carrageen (decomposition product of polysaccharide from red seaweed)				2B
[1076-46-6]	Chloramben ammonium	ammonium(3-amino-2,5-dichloro)benzoate		(P242)	
[305-03-3]	*Chlorambucil*	4-[bis(2-chloroethyl)amino]-benzene butanoic acid			1
[56-75-7]	Chloramfenicol	2,2-dichloro-N-[2-hydroxy-1-(hydroxymethyl)-2-(4-nitro-phenyl)-ethyl]acetamide			2B
[57-74-9]	Chlordane	1,2,4,5,6,7,8,8-octachloro 2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene		3C	3
[143-50-0]	Chlordecone			3C	2B
[501-15-6]	Chlorobenzilate	4-chloro-a-(4-chlorophenyl)-a-hydroxybenzene acetic acid ethyl ester			3

CAS number	Name	Synonym	Comment	EC	IARC
[126-99-8]	2-Chlorobuta-1,3-diene	chloroprene			3
[6164-98-3]	Chlorodimeform	N'-(4-chloro-2-methylphenyl)-			
		N,N'di methylformamidine		3C	3
[19750-95-9]	Chlorodimeformhydro-chloride			3C	3
[13909-9-6]	*1-(2-chloroethyl)-3-(4-methyl-cyclohexyl)-1-nitrosourea*		see Semustine		
[13010-47-4]	*1-(2-chloroethyl)-3-(4-methyl-cyclohexyl)-N-nitrosourea*		see Lomustine		
[67-66-3]	Chloroform			3C	2B
[126-85-2]	*Chloromethine N-oxide*		(see Nitrogen mustard N-oxide)		
[107-30-2]	*Chloromethyl-methyl-ether*			1C	1
[494-03-1]	*Chloronaphazine*	N,N-bis(2-chloroethyl)-2-naphtylamine			1
[95-83-0]	*4-Chloro-o-fenyleendiamine*	4-chloro-1,2-diaminobenzene			2B
[95-69-2]	p-Chloro-o-toluidine				2B
[25167-80-0]	Chlorophenol				2B
[126-99-8]	Chloroprene		(see 2-Chloro-buta-1,3-diene)		
[107-05-1]	3-Chloropropene	allyl chloride			3
[187-45-6]	Chlorothalonil	2,4,5,6-tetrachloro-1,3-benzene-dicarbonitril		3C	3
	Chromium (VI) compounds				
[24613-89-6]	• *Chromium (III) Chromate*				
[13765-19-0]	• *Calcium chromate*			2C	1
[11115-74-5]	• Chromium acid			2C	
[1308-38-9]	• *Chromium trioxide*			2C	
[7789-06-2]	• *Strontium chromate*			2C	1
[13530-65-9]	• Zinc chromate			2C	1
[49663-84-5]	• Zinc tetrahydroxy Chromate				1
[15663-27-1]	Cisplatina	cis-diammine dichloroplatina			2A
[6358-53-8]	Citrus red no. 2	1- [(2,5-dimethoxyphenyl) azo]-2-naphtalenol			2B
[65996-93-2]	Coal tar				1
[8001-58-9]	Coal tar distillate				1
	Cobalt and cobalt compounds			(C088)	
[7440-48-4]	• Cobalt			(C087)	
[1307-96-6]	• Cobalt oxide			(C089)	
[1317-42-6]	• Cobalt sulphide			(C090)	
[8007-45-2]	Creosote		see PAH		
[120-71-8]	p-Cresidine				2B
[14901-08-7]	Cycasine	(methyl-ONN-azoxy)methyl ß-D- glucopyranoside			2B
[50-18-0]	*Cyclophosphamide*	N,N-bis(2-chloroethyl)tetra-hydro-2H-1,3,2-oxazaphos-phorine-2-amine-2-oxide			1
[13121-70-5]	Cyhexatin	tricyclohexyltin hydroxide		(P057)	
	D				
[94-75-7]	2,4-D 2,4-dichlorophenoxy acetic acid			4C	2B
[4342-03-4]	*Dacarbazine*	5-(3,3-dimethyl-1-triazenyl)-1H- imidazole-4-carboxamide			2B
[1596-84-5]	Daminozide	butane diacid rmono (2,2-dimethyl-hydrazide)		(P275)	
[20830-81-3]	*Daunomycine*	daunorubicine			2B
[50-18-0]	DDT			3C	2B
[117-82-7]	Di(2-ethylhexyl)phtalate (DOP)			4C	2B
[613-35-4]	*N,N-Diacetylbenzidine*	N,N'-diacetyl(1,1"-diphenyl-4,4'-diamine)			2B
[2303-16-4]	Diallate	S-(2,3-dichloroallyl) diisopropyl-thiocarbamate		3C	
[615-05-4]	2,4- Diaminoanisole	2,4-diamino-1-methoxy-benzene			2B
[39156-41-7]	*2,4- Diaminoanisole sulphate*				2B
[101-80-4]	4,4'-Diaminodiphenyl ether				2B
[95-80-7]	*2,4-Diaminotoluene*				2B
[119-90-4]	*o-Dianisidine (+salts)*	3,3'-dimethoxy-[1,1'-diphenyl]- 4,4'-diamine		2C	2B
[334-88-3]	*Diazomethane*	azimethylene			3
[192-65-4]	Dibenzo(a,e)pyrene		see PAH		
[226-36-8]	Dibenzo(a,h)acridine		see PAH		

CAS number	Name	Synonym	Comment	EC	IARC
[53-70-3]	*Dibenzo(a,h)anthracene*		see PAH		
[189-64-0]	Dibenzo(a,h)pyrene		see PAH		
[189-55-9]	Dibenzo(a,i)pyrene		see PAH		
[224-42-0]	Dibenzo(a,j)acridine				2B
[191-30-0]	Dibenzo(a,l)pyrene		see PAH		
[194-59-2]	*7H-Dibenzo(c,g)carbazole*	3,4,5,6-dibenzocarbazole	see PAH		
[92-12-8]	*1,2-Dibromo-3-chloropropane*			2C	2B
[106-93-4]	*1,2-Dibromomethane*			2C	2A
[764-41-0]	1,4-Dichloro-2-butene				
[92-12-8]	*1,3-Dichloro-2-propanol*			2C	
[28434-86-8]	*3,3'-Dichloro-4,4'diamino-diphenyl ether*				2B
[7572-29-4]	Dichloroacetylene				3
[106-46-7]	1,4-Dichlorobenzene	p-Dichlorobenzene		4C	2B
[91-94-1]	3,3'-Dichlorobenzidine (+salts)	3,3'-dichloro-[1,1'diphenyl] - 4,4'-diamine		2C	2B
[107-06-2]	*1,2-Dichloroethane*			2C	2B
[75-34-3]	1,1-Dichloroethane			4C	
[75-35-4]	1,1-Dichloroethene				
[75-09-2]	Dichloromethane			3C	2B
[78-87-5]	1,2-Dichloropropane			4C	3
[542-75-6]	Dichloropropene			4C	2B
[62-73-7]	Dichlorvos	2,2-chloroethenyl dimethyl phosphate		4C	3
[115-32-2]	Dicofol	4-chloro-a-(4-chlorophenyl)-a-trichloromethyl-phenylmethanol		4C	3
[60-57-1]	Dieldrin			3C	3
[1464-53-5]	Diepoxybutane				2B
[1615-80-1]	1,2-Diethylhydrazine				2B
[56-53-1]	Diethylstilboestrol				1
[64-67-5]	*Diethylsulphate*			2C	2A
[101-90-6]	*Diglycidylresorcinol ether*	diglycidyl-m-dihydroxy-benzene ether			2B
[94-58-6]	Dihydrosafrol	dihydro(5-(2-propenyl)-1,3-benzodioxol)			2B
[60-11-7]	*p-Dimethyl aminoazobenzene*				2B
[127-19-5]	N,N-Dimethylacetamide				
[79-44-7]	*Dimethylcarbamoyl chloride*			2C	2A
[68-12-2]	N,N-Dimethylformamide				
[57-14-7]	*1,1-Dimethylhydrazine*			2C	2B
[540-73-8]	1,2-Dimethylhydrazine			2C	2B
[62-75-9]	N,N-dimethylnitrosamine			2C	2A
[131-11-3]	Dimethylphalate				
[13360-57-1]	*Dimethylsulphamoylchloride*			2C	
[77-78-1]	*Dimethylsulphate*			2C	2A
[97-02-9]	2,4-Dinitroaniline			4C	
[99-65-0]	1,3-Dinitrobenzene (m-)			(A007)	
[528-29-0]	1,2-Dinitrobenzene (o-)			(A006)	
[100-25-4]	1,4-Dinitrobenzene (p-)			(A008)	
[88-85-7]	Dinoseb (+salts)	2-(1-methylpropyl)-4,6-dinitro-phenol		(P087)	
[2813-95-8]	Dinoseb acetate	2-(1-methylpropyl)-4,6-dinitro-phenyl acetate		(P088)	
[1420-07-1]	Dinoterb			(P089)	
[123-91-1]	1,4-Dioxane			3C	2B
[1937-37-7]	*Direct black 38*				2A
[2602-46-2]	*Direct blue 6*				2A
[16071-86-6]	*Direct brown 95*			2C	
[480387-97-7]	3,5-Di-tertiairbutyl-4-hydroxyphenyl-4- methyl-thioacetic acid 2-ethylhexyl-ester			(C120)	
[330-54-1]	Diuron	N'-3,4-dichlorophenyl)-N, N'-dimethylurea		(P315)	
[534-52-1]	DNOC	2-methyl-4,6-dinitrophenol		(P095)	
[23214-92-8]	*Doxorubicine*	see Adriamycine			
	E				
[72-20-08]	Endrin			4C	3
[106-89-8]	*Epichlorohydrine*			2C	2A
[106-87-6]	1,2-Epoxy-4-epoxyethyl-cyclohexane			(....)	
[106-88-7]	1,2-Epoxybutane			(C083)	
[66733-21-9]	Erionite; Zeolite, natural			1C	1
[50-28-2]	*Estradiol*		see Oestadiol		

CAS number	Name	Synonym	Comment	EC	IARC
[53-16-7]	*Estron*		see Oestron		
[75-21-8]	*Ethene oxide*			2C	2A
[57-63-6]	*Ethinyloestradiol*				1
[110-80-5]	2-Ethoxyethanol	ethylenelycolmonoethyl ether		(A031)	
[111-15-9]	2-Ethoxyethylacetate			(A033)	
[140-88-5]	Ethylacrylate				2B
[96-45-7]	Ethylenethiourea	2-imidazolidinethion		4C	2B
[62-50-0]	Ethylmethanesulphonate		see methane sulphonic acid ethyl ester		
[759-73-9]	N-Ethyl-N-nitrosourea		see N-Nitroso-N-ethylurea		
	F				
[24691-80-3]	Fenfuram			4C	
[14484-64-1]	Ferbam	iron tris(dimethyldithio-carbamate)			3
[133-07-3]	Folpet	2-	[(trichloro-methyl)thio] phtalimide		3C
[50-00-0]	Formaldehyde	methanal		3C	2A
[67-45-8]	*Furazolidon*	3-[(5-nitro-2-furanyl) methylene]- amino]-2-oxazolidon			3
[98-01-1]	Furfural			(....)	
[60568-05-0]	Furmecyclox			(F003)	
	G				
[67730-11-4]	Glu-P-1 (glucose-1-phosphate)				2B
[67730-10-3]	Glu-P-2 (glucose-2-phosphate)				2B
[765-34-4]	Glycidaldehyde	2,3-epoxypropanal			2B
[126-07-8]	Griseofulvin	7-chloro-2′,4,6-trimethoxy-6′- methylspiro[benzo-furan-2(3H),1′-[2]cyclo hexene]-3,4-dion			2B
	H				
[76-44-8]	Heptachloride	1H-1,4,5,6,7,8,8-hepta-chloro-3a,4a,7,7a-tetrahydro-4,7- methanoindene		3C	3
[1024-57-3]	Heptachloroepoxide			3C	
[118-74-1]	*Hexachlorobenzene*	HCB		2C	2B
[608-73-1]	Hexachlorocyclohexane	lindane, HCH		3C	2B
[680-31-9]	*Hexamethylphosphoric acid triamide*	hexamethylphosphoramide		2C	2B
[302-01-2]	*Hydrazine (+salts)*			2C	2B
[122-66-7]	Hydrazobenzene			(C119)	
[25013-16-5]	Hydroxyanisol, butylated				2B
	I				
[193-39-5]	Indeno(1,2,3-cd)pyrene				2B
[13010-47-4]	*Iomustine*	1-(2-chloroethyl)-3-(4-methyl-cyclohexyl)-N-nitrosourea			1
[1689-83-4]	Ioxynil			(P128)	
[3861-47-0]	Ioxyniloctanoate			(P129)	
[76180-96-6]	IQ(2-Amino-3-methyl imidazo(4,5-f)- quinoline				2B
[9004-66-4]	Iron dextran complex				2B
[34123-59-6]	Isoproturon	N,N′-dimethyl-N′-[4-(1 -methyl- ethyl)phenyl]urea		3C	
[120-58-1]	Isosafrole	5-(1-propenyl)-1,3-benzodioxol			3
	J				
	K				
	L				
[303-34-4]	Lasiocarpine	2-methylbut-2-enic acid 7-[2,3- dihydroxy-2-(1-methoxy-ethyl)-3- methyl-1-oxobutoxy] methyl-2,3,5,7a-tetrahydro-1H-pyrrolizin-1-yl ester			2B

CAS number	Name	Synonym	Comment	EC	IARC
	Lead and lead compounds				
[7439-92-1]	• Lead				2B
[301-04-2]	• Lead acetate			4C	2B
[7758-97-6]	• Lead chromate			3C	2B
[7758-97-6]	• Lead chromate		see Chromium (VI) compounds		
[7446-27-7]	• Lead phosphate			4C	2B
[1335-32-6]	• Lead subacetate			(C111)	
[..]	• tri Lead bis (orthophosphate)			(....)	
[58-89-9]	Lindane		see Hexa chlorocyclo hexane		
[330-55-2]	Linuron	N'-(3,4-dichlorophenyl) -N-methoxy-N-methylurea		3C	
	M				
[123-33-1]	Maleinhydrazide	1,2-dihydro-3,6-pyridazinedion			3
[8018-01-7]	Mancozeb	manganese/zinc ethylene (bisdithio carbamate) complex		(P371)	
[12427-38-2]	Maneb	manganese(ethylene [bisdithio-carbamate])			3
[148-82-3]	*Melphalan*	4-[bis(2-chloroethyl)amino]-L-phenylalanine			1
[..]	Merphalan				2B
[72-33-3]	*Mestranol*	ethinyloestadiol-3-methyl ether			1
[62-50-0]	Methane sulphonic acid ester				2B
[66-27-3]	Methane sulphonic acid methyl ester				2B
[109-86-4]	2-Methoxy ethanol	glycol methyl ether		(A030)	
[484-20-8]	5-Methoxy psoralene	5-methoxy-7H-furo-[3,2-g] [1]-benzopyran-7-on			2A
[110-49-6]	2-Methoxyethyl acetate			(A032)	
[74-83-9]	Methyl bromide			4C	3
[74-87-3]	Methyl chloride			3C	3
[74-88-4]	Methyl iodide			3C	3
[66-27-3]	Methyl methanesulphonate		see Methane sulphonic acid methyl ester		
[68006-83-7]	3-Methyl-1H-pyrido(2,3,b) indole-2-amine	MeA-a-C(2-Amino-3-methyl-9H-pyr.			2B
[129-15-7]	2-Methyl-1-nitroanthrachinon				2B
[70-25-7]	*1-Methyl-3-nitro-1-nitrosoguanidine*			2C	2A
[75-55-8]	*2-Methylaziridine*	2-methylethylene imine, propyleneimine		2C	2B
[590-62-5]	*Methylazoxymethanol*				
[592-62-1]	*Methylazoxymethyl acetate*			2C	2B
[3697-24-3]	*5-Methylchrysene*		see PAH		
[101-14-4]	*4,4'-Methylene bis(2-chloro-aniline)* (+zouten)			2C	2A
[838-88-0]	4,4'-Methylene bis (2-methylaniline)			2C	2B
[101-77-9]	4,4'-Methylenedianiline			2C	2B
[56-04-2]	Methylthiouracil				2B
[443-48-1]	*Metronidazole*	2-methyl-5-nitro imidazole-1-ethanol			2B
[2385-85-5]	Mirex	hexachloropentadiendimere		2C	2B
[50-07-7]	Mitomycin C	ametycin			2B
[315-22-0]	Monocrotaline	14-19-dihydro-12-13-dihydroxy-20-norcrotonalan-11,15-dion			2B
[150-68-5]	Monuron	N'-(4'-chlorophenyl)-N, N-dimethyl urea		3C	3
[15159-40-7]	4-Morpholinocarbamoyl chloride			3C	
[139-91-3]	5-(Morpholinomethyl)-3 (5-nitro-2- furanyl)-methylene amino-2-oxazolidon				2B
[505-60-2]	Mustard gas	1,1'-thiobis(2-chloroethane)			1
[51-75-2]	*Mustine*	see Nitrogen mustard			
[55-98-1]	Myleran	1,4-butanediol methanesulphonic acid diester			1

CAS number	Name	Synonym	Comment	EC	IARC
	N				
[142-59-6]	Nabam	dinatrium ethylene bisdithio carbamate		(P155)	
[3771-19-5]	Nafenopin				2B
[2243-62-1]	1,5-Naftalenediamine			(C082)	
[134-32-7]	1-Naphtylamine			4C	3
[91-59-8]	*2-Naphylamine* (+salts)			1C	1
	Nickel and nickel compounds				
[1314-06-3]	• *Dinickel trioxide*				1
[7440-02-0]	• Nickel				1
[3333-67-3]	• Nickel carbonate				1
[12035-36-8]	• *Nickel dioxide*				1
[12054-48-7]	• Nickel hydroxide				1
[1313-99-1]	• *Nickel monoxide*				1
[12035-72-2]	• *Nickel subsulphide*				1
[7786-81-4]	• Nickel sulphate				1
[16812-54-7]	• *Nickel sulphide*				1
[13464-39-3]	• Nickel tetracarbonyl				1
[61-57-4]	*Niridazole*	1-(5-nitro-thiazolyl)-2-imidazollidinone			2B
[531-82-8]	*N-4-(5-Nitro-2-furanyl)-2-thiazolyl)-acetamide*				2B
[602-87-9]	*5-Nitroacenaphthene*			2C	2B
[98-95-3]	Nitrobenzene			4C	
[92-93-3]	4-Nitrobiphenyl			2C	
[1836-75-2]	*Nitrofen*	2,4-dichloro-1-(4-nitro-phenoxy)benzene		2C	2B
[555-84-0]	1-(5-Nitrofurfurylidene) amino)-2-imidazollidinon				2B
[51-75-2]	*Nitrogen mustard*	tris(2-chloroethyl) amine, mustine			2B
[126-85-2]	*Nitrogen mustard N-oxide*	tris-(2-chloroethyl) amine-N-oxide			2B
[581-89-5]	*2-Nitronaphtalene*			2C	
[96-96-8]	2-Nitro-p-anisidine	2-nitro-1-methyl-4-methoxy-benzene	(A013)		
[79-46-9]	*2-Nitropropane*			2C	2B
	Nitrosamines				
[1116-54-7]	*N-Nitrosodiethanolamine*			2C	2B
[55-18-5]	*N-Nitrosodiethylamine*				2A
[156-10-5]	p-Nitrosodiphenylamine				3
[86-30-6]	N-Nitrosodiphenylamine				3
[62-75-9]	*N-Nitrosodimethylamine*			2C	2A
[601-77-4]	N-Nitrosodi-i-propylamine			(....)	
[612-64-6]	N-Nitrosoethylphenylamine			(....)	
[924-16-3]	N-Nitrosodi-n-butylamine				2B
[621-64-7]	N-Nitrosodi-n-propylamine				2B
[60153-49-3]	3-(N-Nitrosomethylamino) propionitrile				2B
[64091-91-4]	4-(N-Nitrosomethylamino)-1-(3-pyridyl)-1-butanon				2B
[10595-95-6]	N-Nitrosomethylethylamine				2B
[614-00-6]	N-Nitrosomethylphenylamine			(....)	
[4549-40-0]	Nitrosomethylvinylamine				2B
[59-89-2]	*N-Nitrosomorpholine*				2B
[759-73-9]	*N-Nitroso-N-ethylurea*				2A
[684-93-5]	*N-Nitroso-N-methylurea*				2A
[615-53-2]	*N-Nitroso-N-methylurethane*				2B
[80508-23-2]	N-Nitrosonornicotine				2B
[100-75-4]	*N-Nitrosopiperidine*				2B
[930-55-2]	*N-Nitrosopyrrolidine*				2B
[13256-22-9]	N-Nitrososarcosine				2B
[68-22-4]	Norethisterone				2B
	O				
[50-28-2]	*Oestradiol 17 beta*	oestradiol			1
[53-16-7]	*Oestron*				1
[2646-17-5]	Oil orange SS				2B
[19666-30-9]	Oxadiazon	3-[2,4-dichloro-5-(1-methyl-ethoxy)phenyl]-5-(1,1-di methyl-ethyl)-1,3,4-oxadiazol-2(3H)-on	(P406)		
	P				
	PAH Polycyclic aromatic hydrocarbons				
[64742-03-6]	• *Aromatics extracts of mineral oil distillates*				2C
[64742-04-7]					
[64742-05-8]					
[64742-11-6]					

CAS number	Name	Synonym	Comment	EC	IARC
[8007-45-2]	• Creosote				2A
[53-70-3]	• *Dibenz(a,h)anthraxcene*			2C	2A
[192-65-4]	• Dibenzo(a,e)pyrene				2B
[56-55-3]	• *Benzo(a)anthracene*			2C	2A
[50-32-8]	• *Benzo(a)pyrene*			2C	2A
[205-99-2]	• *Benzo(b)fluoranthene*			2C	2B
[205-82-3]	• *Benzo(j)fluoranthene*			2C	2B
[207-08-7]	• *Benzo(k)fluoranthene*			2C	2B
[226-36-8]	• Dibenzo(a,h)acridine				2B
[189-64-0]	• Dibenzo(a,h)pyrene				2B
[189-55-9]	• Dibenzo(a,i)pyrene				2B
[191-30-0]	• Dibenzo(a,l)pyrene				2B
[194-59-2]	• *7H-Dibenzo(c,g)carbazole*				2B
[3697-24-3]	• *5-Methylchrysene*				2B
[794-93-4]	*Panfuran S*				2B
[76-01-7]	Pentachloroethane			3C	
[87-86-5]	Pentachlorophenol				2B
[62-44-2]	Phenacetin	N-(4-ethoxyphenyl) acetamide			2A
[94-78-0]	Phenazopyridine	3-(phenylazo)-2,6-pyridinediamine			2B
[50-06-6]	Phenobarbital	5-ethyl-5-phenyl-2,4,6(1H, 3H,5H)- pyrimidinetrion			2B
[59-96-1]	Phenoxybenzamine	N-(2-chloroethyl)-N-(1-methyl-2- phenoxyethyl)-phenyl-methanamine			2B
[90-43-7]	2-Phenylphenol	(1,1′-biphenyl)-2-ol		(P420)	
[132-27-4]	o-Phenylphenol (Na-salt)			(P420)	
[132-27-4]	2-Phenylphenolacetate	(1,1′-biphenyl)-2-acetate		(P421)	
[57-41-0]	Phenytoin	5,5-biphenyl-2,4-imidazolidinedion			2B
[13171-21-6]	Phosphamidon	(2-chloro-3-(diethylamino)-1 -methyl-3-oxo-1- propenyl)-dimethylphosphate		(P170)	
[1918-02-1]	Picloram	4-amino-3,5,6-trichloro-2-pyridine carbonic acid		4C	
[59536-65-1]	*Polybrominated biphenyl*				2B
[1336-36-3]	Polychlorinated biphenyl				2A
[3564-09-8]	Ponceau 3R	dinatrium 3-hydroxy-4-	[(2,4,5- tri-methylphenyl) azo]-2,7-naphtalene-disulphonic acid		2B
[3761-53-3]	Ponceau MX				2B
[7758-01-2]	*Potassium bromate*			2C	2B
[366-70-1]	*Procarbazine hydrochloride*	N-(1-methyethyl)-4-[(2-methyl- hydrazino)methyl] benzamide-hydrochloride			2A
[57-83-0]	*Progesterone*				2B
[1120-71-4]	*1,3-Propane sultone*			2C	2B
[57-57-8]	*3-Propanolide*	ß-propiolacton		2C	2B
[139-40-2]	Propazine	6-chloro-N,N′-bis(1-methyl-ethyl)-1,3,5-triazine-2,4-diamine		3C	
[75-56-9]	*Propene oxide*			2C	2A
[12071-83-9]	Propineb	zinc propylene bis (dithiocarbamate)		3C	
[114-26-1]	Propoxur	2-(1-methylethoxy)phenol N-methyl-carbamate		4C	
[51-52-5]	Propylthiouracil				2B
	Q				
	R				
	S				
[81-07-2]	Saccharine	1,2-benzisothiazol-3(2H)-on-1,1-dioxide			2B
[94-59-7]	*Safrole*	5-(2-propenyl)-1,3-benzodioxote			2B
[13909-9-6]	*Semustine*	1-(2-chloroethyl)-3-(4-methyl-cyclohexyl)-1-nitrosourea			
[7631-86-9]	Silica fibres				2A
[90-43-7]	Sodium-o-phenylphenate				2B
[..]	Soot extracts				2B
[10048-13-2]	*Sterigmatocystin*				2B

CAS number	Name	Synonym	Comment	EC	IARC
[18883-66-4]	*Streptozotocin*	2-deoxy-2-[(methylnitro-samino)- carbonyl]amino]-D-glucopyranoside			2B
[7789-06-2]	*Strontium chromate*		see Chromium (VI) compounds		
[100-42-5]	Styrene			4C	2B
[96-09-3]	*Styrene oxide*			2C	2A
[95-06-7]	*Sulfallate*	2-chloro-2-propenyl (diethyl-dithiocarbamate)		2C	2B
[..]	Synthetic mineral fibres			(....)	
	T				
[93-76-5]	2,4,5-T	2,4,5-trichlororphenoxy acetic acid			2B
[14807-96-6]	Talc-containing fibres				1
[58-22-0]	Testosterone			(....)	
[1746-01-6]	*Tetrachlorodibenzo-p-dioxine (TCDD)*				2B
[127-18-4]	Tetrachloroethene			3C	2B
[62-55-5]	*Thioacetamide*				2B
[139-65-1]	4,4'-Thiodianiline				2B
[23564-05-8]	Thiophanate methyl 1,2-phenylenebis(iminocarbono-thioyl)bis-(ethylcarbamate)			(P489)	
[52-24-4]	*Thiotepa*	tris(1-aziridinyl)phosphine sulphide			2A
[62-56-6]	Thiourea			3C	2B
[137-26-8]	Thiram	bis(dimethylthiocarbamoyl)-disulphide			3
[119-93-7]	*o-Tolidine (+salts)*	3,3'-dimethyl[1,1'-bifenyl]-4,4'-diamine		2C	2B
[584-84-9]	Toluene-2,4-diisocyanate (TDI)			4C	2B
[91-08-7]	Toluene-2,6-diisocyanate			4C	2B
[95-53-4	*o-Toluidine*	o-aminomethylbenzene			2B
[299-75-2]	*Treosulfan*				1
[2303-17-5]	Triallate	bis(1-methylethyl) thiocarbamaat-S-(2,3,3-trichloor-2-propenyl) ester		(P189)	
[52-68-6]	Trichlorfon	(2,2,2-trichloro-1-hydroxy-ethyl)- dimethylphosphonate			3
[2431-50-7]	2,3,4-Trichloro-1-butene			(C100)	
[79-01-6]	Trichloroethene			3C	3
[88-06-2]	2,4,6-Trichlorophenol			3C	2B
[98-07-7]	Trichlorotoluene			(C081)	
[126-72-7]	Tris (2,3-dibromopropyl) phosphate				2A
[62450-06-0]	Trp-P-1				2B
[62450-07-1]	Trp-P-2				2B
[72-57-1]	Trypan blue				2B
	U				
[66-75-1]	*Uracil mustard*	uramustine; 5-(bis-(2-chloro-ethyl)amino)uracil			2B
[51-79-6]	*Urethane*	ethylcarbamate		2C	2B
	V				
[593-60-2]	Vinyl bromide				2A
[75-01-4]	*Vinyl chloride*	chloroethene		1C	1
[..]	Vinylcyclohexane epoxide			(....)	
	W				
[81-81-2]	Warfarin	4-hydroxy-3-(3-oxo-1-phenyl-butyl)-2H-1-benzopyran-2-on		(P196)	
	X				
	Y				
	Z				
[39413-47-3]	Zinc beryllium silicate		see Beryllium compounds		
[13530-65-9]	*Zinc chromate*		see Chromium (VI) compounds		
[49663-84-5]	Zinc tetrahydroxy chromate		see Chromium (VI) compounds		
[12122-67-7]	Zineb	zinc(ethylenebis	[dithio-carbamate])	(P503)	
[137-30-4]	Ziram	zinc bis(dimethyldithio carbamate)			3

Polycyclic aromatic hydrocarbons (PAHs)

Polycyclic aromatic hydrocarbon	EC/IARC	NVN2816	Comments
Acenapthene			e
Acenaphtylene			e
Anthracene		yes	le
Benzo(a)anthracene	2C/2A	yes	le
Benzo(b)fluoranthene	2C/2B	yes	be
Benzo(j0fluoranthene	2C/2B		
Benzo(k)fluoranthene	2C/2B		
Benzo(b)fluorine			
Benzo(a)pyrene	2C/2A	yes	ble
Benzo(a)pyrene		yes	
Benzo(e)pyrene		yes	
Benzo(g,h,i)perylene		yes	ble
Chrysene*		yes	le
Coronene		yes	
Dibenzo(a,h)acridine	.../2B		
Dibenzo(a,h)anthracene	2C/2A	yes	e
Dibenzo(a,j)anthracene	yes		
7H-dibenzo-(c,g)carbazole	.../2B		
Dibenzo(a,e)pyrene	/2B		
Dibenzo(a,h)pyrene	/2B		
Dibenzo(a,i)pyrene	/2B		
Dibenzo(a,l)pyrene	/2B		
3,6-dimethyl-fenantrene	yes		
Fenantrene	yes	le	
Fluoranthene		yes	ble
Fluorene			e
Indeno (1,2,3-c,d) pyrene 1	/2B	yes	ble
3-methyl-cholantrene			
5-methyl-chrysene	.../2B		
Naphtalene			l
Pyrene		yes	e

* In PAH criteria document characterised as carcinogenic (RIVM report 758474007).

The compounds displayed in *italics* are carcinogenic according to Appendix A of the Compulsory Registration of Hazardous Substances. module A5 of the Arbo Information System for Toxic Substances.

Meaning of reference signs under comments:
b = PAHs according to Borneff
l = PAHs according Guideline for Classification and Remediation of Soil 1988 (Leidraad bodemsanering)
e = PAHs according to EPA