



## List of substances which are evaluated for carcinogenic properties

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At request of the Minister of Social Affairs and Employment, the Health Council evaluates the carcinogenic properties of substances. Since 1995, the council evaluates these properties in terms of the current level of scientific knowledge. For the judgement on a substance, the council uses a classification system<sup>a</sup>, which is largely based on EU-Directive 1272/2008:

Category 1A	The substance is known to be carcinogenic to humans.
Category 1B	The substance is presumed to be carcinogenic to humans.
Category 2	The substance is suspected to be carcinogenic to humans.
No classification	The available data are insufficient to evaluate the carcinogenic properties of the Substance (category 3).
No classification	The substance is probably not carcinogenic to humans (category 4).

The categories indicate the strength of the evidence for carcinogenicity. A proposal for a classification forms the basis by the government in putting a substance on the legally binding 'SZW-list of carcinogenic substances and processes' (SZW-list).

In the SZW-list only substances are included which are classified in category 1A or 1B. In case a substance is not listed, it does not mean that the Health Council has not evaluated the substance. For a complete overview of substances evaluated by the council, the list below is drafted. The list is updated regularly.

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<sup>a</sup> See the Guideline to the classification of carcinogenic compounds, the Health Council, No. A10/07E, 2010.

Substance name	Cas-number	Recommended category <sup>b</sup>	Year of publication
<b>A</b>			
Acetaldehyde	75-07-0	1B	2012
Acetaldehyde	75-07-0	1B	2014
N-(4-(5-nitro-2-furyl)-2-thiazolyl) acetamide	531-82-8	1B	1995
Acetone	67-64-1	3	2011
Acrylamide	79-06-1	1B	2002
Adriamycin	23214-92-8	1B	1995
Aflatoxins	116-65-8; 7220-81-7; 1165-39-5; 7241-98-7	1A	1995
2 - Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole	712-68-5	2	1995
Antimony and antimony compounds	-	2	2011
Aramite (2-(4-tert-butylphenoxy)-1-methylethyl 2-chloroethyl sulphite is a colourless liquid	140-57-8	1B	1995
Arsine	7784-42-1	2	2008
5-Azacytidine	320-67-2	1B	2007
Azaserine	115-02-6	1B	1995
Azathioprine	446-86-8	1A	1995
<b>B</b>			
Benzotrichloride	98-07-7	1B	1995
Benzoyl chloride	98-88-4	2	1995
Benzylviolet 4B	1694-09-3	2	1995
Beta-Estradiol	50-28-2	1A	2013
Bischloreoethylnitrosoura	154-93-8	1B	1995
Bisphenol A diglycidyl ether	1675-54-3	3	2013
Bleomycin (BLM)	11056-06-7	1B	1995
Bracken fern	-	1B	1995
Bromodichloromethane	75-27-4	1B	2007
Bromoethane	74-96-4	2	1998

<sup>b</sup> Up to 2008 another system of classification was used. In this table, the recommended categories of substances, which were classified before that period, are translated to categories of the current system.

Substance name	Cas-number	Recommended category <sup>b</sup>	Year of publication
1-Bromopropane	106-94-5	2	2021
Butylated hydroxyanisole (BHA)	25013-16-5	3	1995
n-Butyl glycidyl ether	6-8-2426	2	2008
Beta-Butyrolactone	3068-88-0	1B	1995
Gamma-Butyrolactone	96-48-0	3	1995
<b>C</b>			
1,2-Catechol (pyrocatechol)	120-80-9	1B	2011
Chlorambucil	305-03-3	1A	1995
Chloramphenicol	56-75-7	2	1995
Chlorendic acid.	115-28-6	1B	1995
Chlornaphazine	49-40-31	1A	1995
p-Chloroaniline	106-47-8	1B	1998
1-(2-Chloroethyl)-3-cyclohexyl-1-nirtosourea	13010-47-4	1B	1995
1-(2-Chloroethyl)-3-(4-methylcyclohexyl) -nitro-urea	13909-09-6	1A	1995
p-Chloronitrobenzene	100-00-5	3	2002
4-Chloro-o-phenylenediamine	95-83-0	1B	1995
4-Chloro-o-toluidine	95-69-2 3165-93-3	1B	1998
Chlorozotocin	54749-90-5	1B	2007
Chromium trioxide	1333-82-0	2	1995
Cisplatin	15663-21-1	1B	1995
Citrus red No.2	6358-53-8	1B	1995
p-Cresidine	120-71-8	1B	1995
Cycasin	14901-08-7	1B	1995
Cyclophosphamide	6055-19-2	1A	1995
Cyclosporin	79217-60-0 (cyclosporine A: 59865-13-3)	1A	2007
<b>D</b>			
Dacarbazine	4-3-4342	1B	1995
Daunomycin	20830-81-3	1B	1995
N,N'- Diacetylbenzidine	613-35-4	1B	1995

Substance name	Cas-number	Recommended category <sup>b</sup>	Year of publication
2,4-Diaminoanisole sulphate	39156-41-7	1B	1995
4,4'-Diaminodiphenyl ether	101-80-4	1B	1995
2,4-Diaminotoluene	95-80-7	1B	1995
Dibenz(a,e)acridine (dibenzo(a,h)acridine)	226-36-8	1B	1995
Dibenz(a,j)Acridine	224-42-0	2	1995
7H-Dibenzo(c,g) carbazole	194-59-2	1B	1995
Dibenz(a,e)Pyrene	192-65-4	2	1995
Dibenz(a, h)Pyrene	189-64-0	1B	1995
Dibenz(a, i)Pyrene	189-55-9	1B	1995
Dibenz(a, l)Pyrene	191-30-0	2	1995
(Di)benzoyl peroxide	94-36-0	3	2012
Dichloroacetylene	7572-29-4	2	2002
3,3'-Dichloro-4,4'-diaminodiphenyl ether	28434-86-8	2	1995
1,4-Dichloro-2-nitrobenzene	89-61-2	1B	2018
2,4-Dichloro-1-nitrobenzene	611-06-3	1B	2018
1,2-Diethylhydrazine	1615-80-1	2	1995
Diethylstilboestrol	56-53-1	1A	1995
Diglycidyl resorcinol ether	101-90-6	1B	1995
Dihydrosafrole	94-58-6	2	1995
Dimethylamine	124-40-3	3	2013
p-Dimethylaminoazobenzene	60-11-7	1B	1995
N,N-Dimethylaniline	121-69-7	2	2002
N,N-Dimethylformamide	68-12-2	2	2011
Dinitrobenzene isomers	25154-54-5; 528-29-0; 99-65-0; 100-25-4	3	2011
1,6-Dinitropyrene	42397-64-8	1B	1995
1,8-Dinitropyrene	42397-65-9	1B	1995
1,4-Dioxane	123-91-1	2	2015
Direct Black 38	1937-37-7	1B	1995
Direct Blue 6	2602-46-2	1B	1995

Substance name	Cas-number	Recommended category <sup>b</sup>	Year of publication
Disperse Blue 1	2475-45-8	<b>1B</b>	1995
<i>E</i>			
1,2-Epoxybutane	106-88-7	<b>2</b>	1998
Erionite	66733-21-9	<b>1A</b>	1995
Estradiol 17 beta	50-28-2	<b>2</b>	1995
Estrone	53-16-7	<b>2</b>	1995
Ethanol	64-17-5	<b>1A</b>	2006
Ethinylestradiol	57-63-6	<b>2</b>	1995
Ethyl acrylate	140-88-5	<b>3</b>	1995
Ethyl acrylate	140-88-5	<b>3</b>	2012
Ethylene	74-85-1	<b>3</b>	2013
Ethylmethanesulphonate	62-50-0	<b>1B</b>	1995
<i>F</i>			
Formamide	75-12-7	<b>2</b>	2011
2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiazole	3570-75-0	<b>1B</b>	1995
<b>G</b>			
Glycidaldehyde	765-34-5	<b>2</b>	1995
Griseofulvin	126-07-8	<b>2</b>	1995
<i>H</i>			
Hydrogen peroxide	7722-84-1	<b>3</b>	2002
Hydrazinoethanol	109-84-2	<b>2</b>	1997
<i>I</i>			
Ideno[1,2,3-cd]pyrene	193-39-5	<b>1B</b>	1995
Ifosfamide	3778-73-2	<b>1B</b>	2008
Iodoform	75-47-8	<b>2</b>	2007
Iron and steel founding	-	<b>1A</b>	2020
Iron-dextran complex	9004-66-4	<b>3</b>	1995
Isoniazid	54-85-3	<b>2</b>	2013
Isosafrole	120-58-1	<b>2</b>	1995
<i>J</i>			

Substance name	Cas-number	Recommended category <sup>b</sup>	Year of publication
-			
<i>K</i>			
Kaempferol	520-18-3	<b>2</b>	1995
<i>L</i>			
-			
<i>M</i>			
Maleic hydrazide	123-33-1	<b>2</b>	1997
Man-made mineral fibers	-	<b>3</b>	1995
Melphalan	148-82-3	<b>1A</b>	1995
Merphalan	531-76-0	<b>1B</b>	1995
Mestranol	72-33-3	<b>2</b>	1995
Metallic chromium	-	<b>3</b>	2011
4-Methoxyphenol	150-76-5	<b>3</b>	2011
5-Methoxypsoralene	484-20-8	<b>3</b>	1995
8-Methoxypsoralen plus ultraviolet radiation	-	<b>1A</b>	1995
Methyl isobutyl ketone	108-10-1	<b>2</b>	2020
Methylazoxy methanol	590-96-5	<b>1B</b>	1995
Methylazoxy methanol acetate	592-62-1	<b>1B</b>	1995
5-Methylchrysene	3697-24-3	<b>1B</b>	1995
N-methylformamide	123-39-7	<b>3</b>	2011
N-Methylhydrazine	60-34-4	<b>1B</b>	2002
Methylmethanesulphonate	66-27-3	<b>1B</b>	1995
2-Methyl-1-nitroanthraquinone	129-15-7	<b>1B</b>	1995
4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanone	64091-91-4	<b>1B</b>	1995
3-Methylnitrosaminopropionitrile	60153-49-3	<b>2</b>	1995
Methylthiouracil	56-04-2	<b>1B</b>	1995
Metronidazole	443-48-1	<b>1B</b>	1995
Mitomycine C	50-07-7	<b>1B</b>	1995
Monocrotaline	315-22-0	<b>2</b>	1995
5-(Morpholinomethyl)-3[(5-nitrofur-furylidene)-amino]-2-oxazolidinone	139-91-3; 3795-88-8; 13146-28-6	<b>2</b>	1995

Substance name	Cas-number	Recommended category <sup>b</sup>	Year of publication
Mustard gas	505-60-2	1A	1995
Myleran	55-98-1	1A	1995
<i>N</i>			
Nafenopin	3771-19-5	3	1995
Naphthalene	91-20-3	3	2012
Niridazole	61-57-4	1B	1995
Nitrilotriacetic acid and its salts	139-13-9; 10042-84-9; 18994-66-6; 15467-20-6; 23255-03-0; 5064-31-3; 18662-53-8	3	1995
p-Nitroaniline	100-01-6	2	2008
2-Nitroanisole	91-23-6	1B	2008
N-nitrosodi-n-butylamine	924-16-3	1B	1995
6-Nitrochrysene	8-2-7496	1B	1995
N-Nitroso ethyl urea	759-73-9	1B	1995
2-Nitrofluorene	607-57-8	1B	1995
1-[5-Nitrofurfurylidine)-amino]-2-imidazolidinone	555-84-0	2	1995
Nitrogen mustard (hydrochloride)	51-75-2	1B	1995
Nitrogen-Mustard-N-Oxide (hydrochloride)	126-85-2	1B	1995
N-Nitroso methyl urea	684-93-5	1B	1995
N-Nitropyrrolidine	930-55-2	1B	1995
1-Nitropyrene	5522-43-0	2	1995
4-Nitropyrene	57835-92-4	1B	1995
N-Nitrosarcosine	13256-22-9	1B	1995
N-Nitrosodiethylamine	55-18-5	1B	1995
N-Nitrosodiisopropylamine	601-77-4	1B	1995
N-Nitrosodiphenylamine	83-30-6	2	1995
N-Nitrosomethylethylamine	10595-95-6	1B	1995
N-Nitrosomethylvinylamine	4549-40-0	1B	1995
N-Nitroso-N-methylurethane	615-53-2	1B	1995
N-Nitrosomorphiline	59-89-2	1B	1995
N-Nitrosornicotine	80508-23-2	1B	1995

Substance name	Cas-number	Recommended category <sup>b</sup>	Year of publication
N-Nitrosopiperidine	100-75-4	<b>1B</b>	1995
2-Nitrotoluene	88-72-2	<b>2</b>	1998
Norethisterone	68-22-4	<b>2</b>	1995
<i>O</i>			
Oil Orange SS	2646-17-5	<b>2</b>	1995
<i>P</i>			
Perfluorooctanoic acid and its salts	335-67-1	<b>3</b>	2013
Phenacetin, analgesic mixtures containing	-	<b>1B</b>	1995
Phenacetin	62-44-2	<b>2</b>	1995
Phenacetin	62-44-2	<b>1A</b>	2012
Phenazopyridine (-hydrochloride)	94-78-0 (136-40-3)	<b>1B</b>	1995
Phenobarbital	50-06-6	<b>2</b>	1995
Phenoxybenzamine (-hydrochloride)	59-96-1 (63-92-3)	<b>2</b>	1995
o-Phenylenediamine	95-54-5	<b>2</b>	1998
Phenyl glycidyl ether	122-60-1	<b>2</b>	2002
Phenylhydrazine	100-63-00	<b>1B</b>	1997
Phenytoin	57-41-0/630-93-3	<b>3</b>	1995
Polybrominated biphenyls	59536-65-1; 67774-32-7; 59080-40-9; 61288-18-9; 13654-09-6	<b>2</b>	1995
Polychlorinated biphenyls	-	<b>2</b>	1995
Polyvinyl chloride	9002-86-2	<b>3</b>	2013
Ponceau 3R	8-9-3564	<b>2</b>	1995
Ponceau MX	3761-53-3	<b>2</b>	1995
Potassium cyanide	151-50-8	<b>3</b>	2012
Procarbazine hydrochloride	366-70-1	<b>1B</b>	1995
Progesterone	57-83-0	<b>2</b>	1995
Propylthiouracil (PTU)	51-52-5	<b>1B</b>	1995
Ptaquiloside	87625-62-5	<b>1B</b>	1995
Punfuran-S (Dihydroxymethylfuratrizine)	794-93-4;	<b>1B</b>	1995
<i>Q</i>			
Pyridine	110-86-1	<b>2</b>	2023

Substance name	Cas-number	Recommended category <sup>b</sup>	Year of publication
Quarz		<b>1A</b>	1998
Quercetin	117-39-5	<b>3</b>	1995
<i>R</i>			
Resorcinol diglycidyl ether	101-90-6	<b>1B</b>	2016
Refractory ceramic fibres	-	<b>1B</b>	2011
Rhodium and compounds	7440-16-6	<b>2</b>	2002
Ronidazole	7681-76-7	<b>3</b>	1998
<i>S</i>			
Safrole	94-59-7	<b>1B</b>	1995
Shikimic acid	138-59-0	<b>3</b>	1995
Silica	7631-86-9	<b>1B</b>	1995
Silicon carbide	409-21-2	<b>1A</b>	2012
Sodium o-phenylphenate	132-27-4	<b>3</b>	1995
Sterigmatocystin	10048-13-2	<b>1B</b>	1995
Stibine	7803-52-3	<b>3</b>	2008
Streptozotocin	18883-66-4	<b>1B</b>	1995
Strong inorganic acid mists containing sulphuric acid	7664-93-9	<b>1A</b>	2003
Styrene	100-42-5	<b>1B</b>	2025
<i>T</i>			
Talc	14807-96-6	<b>3</b>	2012
1-Tert-butoxypropan-2-ol	57018-52-7	<b>2</b>	2021
Testosterone	58-22-0	<b>2</b>	1995
Tetrachlorodibenzo-p-dioxin (TCDD)	1746-01-6	<b>1B</b>	1995
Tetrahydrofuran	109-99-9	<b>3</b>	2012
Tetranitromethane	208-094-7	<b>1B</b>	2002
Thiocetamine	62-5-55	<b>1B</b>	1995
4,4'-Thiodianiline	139-65-1	<b>1B</b>	1995
Thiourea	62-56-6	<b>2</b>	1995
o-Toluidine	95-53-4	<b>1B</b>	1995
Treosulphan	299-75-2	<b>1A</b>	1995

Substance name	Cas-number	Recommended category <sup>b</sup>	Year of publication
Trichloroacetic acid	76-03-9	<b>3</b>	2012
Trichlormethine hydrochloride	817-09-4	<b>1B</b>	2008
1,1,1-Trichloroethane	71-55-6	<b>3</b>	2012
1,2,3-Trichloropropane	96-18-4	<b>1B</b>	1998
2,4,5-Trimethylaniline	137-17-7	<b>1B</b>	2008
Tris(1-aziridinyl)phosphinesulfide (Thiotepa)	52-24-4	<b>1B</b>	1995
Tris (2,3-Dibromopropyl) Phosphate	126-72-7	<b>1B</b>	1995
Tryptan blue (commercially available)	72-57-1	<b>2</b>	1995
Tryptan blue (purified)	72-57-1	<b>3</b>	1995
Tungsten and tungsten compounds	-	<b>3</b>	2013
<i>U</i>			
Uracil mustard consists of white odourless crystals	66-75-1	<b>1B</b>	1995
<i>V</i>			
Vinblastine sulphate	143-67-9	<b>2</b>	2007
Vincristine sulphate	2068-78-2	<b>2</b>	2007
Vinyl bromide	593-60-2	<b>1B</b>	1995
4-Vinylcyclohexene	100-40-3	<b>1B</b>	2008
4-Vinylcyclohexene diepoxide	106-87-6	<b>1B</b>	2016
N-vinyl-2-pyrrolidone	88-12-0	<b>2</b>	2007
<i>W</i>			
Welding fume / particles	-	<b>2</b>	1995
Whole diesel exhaust	-	<b>1B</b>	1995
Wood dust (hard)	-	<b>1A</b>	1998
Wood dust (hard)	-	<b>1A</b>	2000
Wood dust (soft)	-	<b>2</b>	1998
Wood dust (soft)	-	<b>2</b>	2000
<i>X</i>			
Xylidine (isomers); 2,3-Xylidine, 2,4-Xylidine, 2,5-Xylidine, 2,6-Xylidine, 3,4-Xylidine, 3,5-Xylidine	1300-73-8 (mixed isomers)	<b>1B</b>	2002
2,6-Xylidine	87-62-7	<b>2</b>	2015
<i>Y</i>			

Substance name	Cas-number	Recommended category <sup>b</sup>	Year of publication
-			
Z			
Zink Beryllium Silicate	39413-47-3	<b>1B</b>	1995
<i>Processes</i>			
Manufacture of auramine	-	<b>1A</b>	1995