

SELECT CARCINOGENS

Appendix 7

OSHA's definition of Select Carcinogens includes substances on the following lists:

OSHA Regulated Carcinogens including substance such as (29 CFR...)

"13 Carcinogens"	1910.1003
Acrylonitrile	1910.1045
Inorganic Arsenic	1910.1018
Asbestos	1910.1101
Benzene	1910.1028
1,3-Butadiene	1910.1051
Cadmium	1910.1027
Coke oven emissions	1910.1029
1,2-Dibromo-3-chloropropane	1910.1044
Ethylene oxide	1910.1047
Formaldehyde	1910.1048
Methylene chloride	1910.1052
Methylenedianiline	1910.1050
Vinyl chloride	1910.1017

WHO IARC Monographs Database

Group 1 – List of Human Carcinogens

Group 2A – List of Probable Human Carcinogens

Group 2B – List of Possible Human Carcinogens

NTP's most recent Report on Carcinogens:

List of Substances Known to be Human Carcinogens

List of Substances Reasonably Anticipated to be Human Carcinogens

The following a PARTIAL list of known or potential carcinogens:

Chemical Name	CAS Number	Category*
2-Acetylaminofluorene	53-96-3	NTPAHC OSHA 13
Acrylonitrile	107-13-1	IARC 2B;NTPAHC
Actinomycin D	50-76-0	IARC 3
Adriamycin	23214-928	IARC 2A;NTPAHC
Aflatoxins	1402-68-2	IARC 1;NTPHC
2-Aminoanthraquinone	117-79-3	NTPAHC
o-Aminoazotoluene	97-56-3	IARC 2Bs
4-Aminodiphenyl	92-67-1	IARC 1;NTPHC, OSHA 13
2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole	712-68-5	IARC 2Bs
Amitrole	61-82-5	IARC 2B;NTPAHC

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Chemical Name	CAS Number	Category*
O-Anisidine	90-04-0	IARC 2Bs;NTPAHC
O-Anisidine hydrochloride	134-29-2	NTPAHC
Aramite	140-57-8	IARC 2Bs;NTPAHC
Arsenic	7440-38-2	IARC 1;NTPHC
Arsenic compounds	7440-38-2	NTPHC
Arsenic pentoxide	1303-28-2	IARC 1
Arsenic trioxide	1327-53-3	IARC 1;NTPHC
Arsenic, inorganic compounds	7440-38-2	IARC 1;NTPHC
Asbestos		IARC 1;NTPHC
Auramine	492-80-8	IARC 2B
Azaserine	115-02-6	IARC 2Bs
Azathioprine	446-86-6	IARC 1;NTPHC
Benzene	71-43-2	IARC 1;NTPHC
Benzidine	92-87-5	IARC 1;NTPHC, OSHA 13
Benzo(a)pyrene	50-32-8	IARC 2A
Benzo(b)fluoranthene	205-99-2	IARC 3
Benzotrichloride	98-07-7	NTPAHC
Benzyl violet	1694-09-3	IARC 2Bs
Beryllium and compounds	7440-41-7	IARC 1;NTPAHC
Bis-(chloromethyl) ether	542-88-1	IARC 1;NTPHC, OSHA 13
Bis-chloroethyl nitrosoarea	154-93-8	IARC 2A;NTPAHC
1,4-Butanediol dimethane-sulphonate	55-98-1	IARC 1;NTPHC
B-butylolactone	3068-88-0	IARC 2Bs
Cadmium and compounds	7440-43-9	NTPAHC
Carbon tetrachloride	56-23-5	IARC 2B;NTPAHC
Chlorambucil	305-03-3	IARC 1;NTPHC
Chloramphenicol	56-75-7	IARC 2B
Chlorinated toluenes		IARC 1
1-(2-Chloroethyl)-3-cyclo-hexyl-1-nitrosoarea	13010-47-4	IARC 1;NTPAHC
4-Chloro-o-phenylenediamine	95-83-0	IARC 2Bs;NTPAHC
Chromium hexavalent compounds	1333-82-0	IARC 1;NTPHC
Cisplatin	15663-27-1	IARC 2A
Citrus red no. 2	6358-53-8	IARC 2Bs
Cobalt-chromium alloy	11114-92-4	IARC 2B;NTPHC
Creosote(s)	8001-58-9	IARC 2Bs
p-Cresidine	120-71-8	IARC 2Bs;NTPAHC
Cupferron	135-20-6	NTPAHC
Cycasin	14901-08-7	IARC 2Bs;NTPAHC
Cyclophosphamide	50-18-0	IARC 1;NTPHC
Dacarbazine	4342-03-4	IARC 2B;NTPAHC
Daunomycin	20830-81-3	IARC 2Bs

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Chemical Name	CAS Number	Category*
DDT	50-29-3	IARC 2B;NTPAHC
N,N'-Diacetylbenzidine	613-35-4	IARC 2Bs
2,4-Diaminoanisole sulfate	39156-41-7	IARC 2Bs;NTPAHC
4,4'-Diaminodiphenyl ether	101-80-4	IARC 2Bs
2,4-Diaminotoluene	95-80-7	IARC 2Bs;NTPAHC
Dibenz(a,h)acridine	226-36-8	IARC 2Bs;NTPAHC
Dibenz[a,j]acridine	224-42-0	IARC 2Bs;NTPAHC
Dibenz[a,h]anthracene	53-70-3	IARC 2B;NTPAHC
Dibenzo(a,e)pyrene	192-65-4	IARC 2Bs
Dibenzo[a,h]pyrene	189-64-0	IARC 2Bs;NTPAHC
Dibenzo([a,i]pyrene	189-55-9	IARC 2Bs;NTPAHC
Dibenzo[q,i]pyrene	189-55-9	IARC 2Bs;NTPAHC
Dibromochloropropane (DBCP)	96-12-8	IARC 2Bs;NTPAHC
3,3'-Dichlorobenzidine	91-94-1	IARC 2B;NTPAHC, OSHA 13
Dichlorodiaminodiphenyl ether	284-34-86-8	IARC 2Bs
Diethyl sulfate	64-67-5	IARC 2A;NTPAHC
Diethylstilbestrol	56-53-1	IARC 1;NTPHC
Dihydrosafrole	94-58-6	IARC 2Bs
3,3'-Dimethoxybenzidine	119-90-4	IARC 2B;NTPAHC
trans-2((Dimethylamino)methylimino)5-(2-(5-nitro-2-furyl)vinyl)-1,3,4-oxadiazole	55738-54-0	IARC 2Bs
1,1-Dimethylhydrazine (UDMH)	57-14-7	IARC 2Bs;NTPAHC
Dimethyl sulfate	77-78-1	IARC 2A;NTPAHC
Dimethylaminoazobenzene	60-11-7	IARC 3;NTPAHC, OSHA 13
Dimethylcarbamoyl chloride	79-44-7	IARC 2A;NTPAHC
Dioxane	123-91-1	IARC 2B;NTPAHC
Estrone	53-16-7	IARC 2B;NTPAHC
Ethyl methanesulfonate (EMS)	62-50-0	IARC 2B
Ethylene dibromide (EDB)	106-93-4	IARC 2B;NTPAHC
Ethylene thiourea	964-45-7	IARC 2B;NTPAHC
Ethyleneimine	15-15-64	OSHA 13
Formaldehyde	50-00-0	IARC 2B;NTPAHC
2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiazole	3570-75-0	IARC 2B
Glycidylaldehyde	765-34-4	IARC 2B
Hexachlorobenzene	118-74-1	IARC 2B;NTPAHC
Hexamethyl phosphoramidate	680-31-9	IARC 2B;NTPAHC
Hydrazine, sulfate (1:1)	10034-93-2	NTPAHC
Lasiocarpine	303-34-4	IARC 2B
Lead acetate	301-04-2	NTPAHC
Lead chromate(VI) oxide	18454-12-1	IARC 1;NTPHC
Lindane, and mixed isomers	58-89-9	NTPAHC

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Chemical Name	CAS Number	Category*
Melphalan	148-82-3	IARC 1;NTPHC
Merphalan	531-76-0	IARC 2B
Mestranol	72-33-3	IARC 2B;NTPAHC
Methyl chloromethyl ether	107-30-2	OSHA 13
4,4'-Methylene bis-(2-chloroaniline)	101-14-4	IARC 2B;NTPAHC
4,4'-Methylene bis(N,N-dimethyl)benzeneamine	101-61-1	NTPAHC
4,4'-Methylene bis (2-methylaniline	838-88-0	IARC 2A
Methylenedianiline	101-77-9	NTPAHC
Methylenedianiline dihydro-chloride	13552-44-8	NTPAHC
Methyl iodide	74-88-4	IARC 3;NTPAHC
Methyl methanesulfonate (MMS)	66-27-3	IARC 2A
Methylnitroanthraquinone	129-15-7	IARC 2B
Methylnitronitrosoguanidine	70-25-7	IARC 2A
Methylazoxymethanol acetate	592-62-1	IARC 2B
Methylthiouracil	56-04-2	IARC 2B
Metronidazole	443-48-1	IARC 2B;NTPAHC
Michler's ketone	90-94-8	NTPAHC
Mirex	2385-85-5	IARC 2B;NTPAHC
Mitomycin C	50-07-7	IARC 2B
Monocrotaline	315-22-0	IARC 2B
Mustard gas	505-60-2	IARC 1;NTPHC
alpha-Naphthylamine	134-32-7	OSHA 13
beta-Naphthylamine (2-Naphthylamine)	91-59-8	IARC 1;NTPHC, OSHA 13
5-Nitroacenaphthene	602-87-9	IARC 2B
4-Nitrobiphenyl	92-93-3	OSHA 13
5-Nitro- <i>o</i> -anisidine	99-59-2	NTPAHC
N-Nitrosodimethylamine	62-75-9	OSHA 13
beta-Propiolactone	57-57-8	OSHA 13

*Notes on categories:

IARC International Agency for Research on Cancer

- Group 1 The agent (mixture) is carcinogenic to humans. The exposure circumstances entail exposures that are carcinogenic to humans.
- Group 2A The agent (mixture) is *probably* carcinogenic to humans. The exposure circumstance entails exposures that are probably carcinogenic to humans.
- Group 2B The agent (mixture) is *possibly* carcinogenic to humans. The exposure circumstance entails exposures that are possibly carcinogenic to humans.
- Group 3 The agent (mixture or exposure circumstances) is unclassifiable as to carcinogenicity in humans.
- Group 4 The agent (mixture, exposure circumstance) is probably not carcinogenic to humans,

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NTP National Toxicity Program

AHC Anticipated Human Carcinogen
HC Known Human Carcinogen

OSHA - Occupational Safety and Health Administration
13 OSHA-Regulated carcinogens