



Appendix C – Basis of OSHA Carcinogen Listing for Individual Chemicals

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Chemical	IARC	NTP	OSHA-Z	Chemical	IARC	NTP	OSHA-Z
Acetaldehyde	2B	P	–	C.I. Direct Black 38	2A	K	–
Acetamide	2B	–	–	C.I. Direct Blue 6	2A	K	–
2-Acetylaminofluorene	–	P	Z	C.I. Direct Brown 95	2A	–	–
Acrylamide	2A	P	–	C.I. Food Red 5	2B	–	–
Acrylonitrile	2B	P	Z	C.I. Solvent Yellow 3 (o-aminoazotoluene)	2B	P	–
2-Aminoanthraquinone	–	P	–	C.I. Solvent Yellow 34 (Auramine)	2B	–	–
4-Aminoazobenzene	2B	–	–	Cobalt and cobalt compounds	2B	–	–
4-Aminobiphenyl	1	K	Z	Creosote	2A	K	–
1-Amino-2-methylantraquinone	–	P	–	p-Cresidine	2B	P	–
Amitrole	–	P	–	Cupferron	–	P	–
o-Anisidine	2B	–	–	2,4-D**	2B	–	–
o-Anisidine hydrochloride	–	P	–	2,4-D butoxyethyl ester**	2B	–	–
Arsenic and inorganic arsenic compounds	1	K*	Z	2,4-D butyl ester**	2B	–	–
Asbestos (friable)	1	K	Z	2,4-D chlorocrotyl ester**	2B	–	–
Benzene	1	K	Z	2,4-D 2-ethylhexyl ester**	2B	–	–
Benzidine	1	K	Z	2,4-D 2-ethyl-4-methylpentyl ester**	2B	–	–
Benzoic trichloride	2B	P	–	2,4-Diaminoanisole	2B	–	–
Beryllium and beryllium compounds	1	P*	–	2,4-Diaminoanisole sulfate	–	P	–
Bis(chloromethyl)ether	1	K	Z	4,4'-Diaminodiphenyl ether	2B	–	–
1,3-Butadiene	2A	K	–	2,4-Diaminotoluene	2B	P	–
1,2-Butylene oxide	2B	–	–	Diaminotoluene (mixed isomers)	2B	P	–
Cadmium and cadmium compounds	1	K*	–	1,2-Dibromo-3-chloropropane	2B	P	Z
Carbon tetrachloride	2B	P	–	1,2-Dibromoethane	2A	P	–
Catechol	2B	–	–	1,4-Dichlorobenzene	2B	P	–
Chlordane	2B	–	–	Dichlorobenzene (mixed isomers)	2B	P	–
Chlorendic acid	2B	P	–	3,3'-Dichlorobenzidine	2B	P	Z
p-Chloroaniline	2B	–	–	3,3'-Dichlorobenzidine dihydrochloride	2B	P	–
Chloroform	2B	P	–	3,3'-Dichlorobenzidine sulfate	2B	P	–
Chloromethyl methyl ether	1	K	Z	Dichlorobromomethane	2B	P	–
3-Chloro-2-methyl-1-propene	–	P	–	1,2-Dichloroethane	2B	P	–
Chlorophenols	2B	–	–	Dichloromethane	2B	P	–
Chloroprene	2B	P	–	trans-1,3-Dichloropropene	2B	–	–
Chloroethalonil	2B	–	–	1,3-Dichloropropylene	2B	P	–
p-Chloro-o-toluidine	2A	P	–	Dichlorvos	2B	–	–
Chromium (VI) compounds	1	K	–	Diepoxybutane	2B	P	–
C.I. Acid Red 114	2B	–	–	Di-(2-ethylhexyl)phthalate	–	P	–

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* Certain compounds.

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Diethyl sulfate	2A	P	–	Lead and inorganic lead compounds	2B	–	Z
Diglycidyl resorcinol ether	2B	P	–	Lindane	2B	P	–
Dihydrosafrole	2B	–	–	Mecoprop**	2B	–	–
3,3'-Dimethoxybenzidine	2B	P	–	Methoxone**	2B	–	–
3,3'-Dimethoxybenzidine dihydrochloride	2B	P	–	Methoxone sodium salt**	2B	–	–
3,3'-Dimethoxybenzidine hydrochloride	2B	P	–	4,4-Methylenebis (2-chloroaniline)	2A	P	–
4-Dimethylaminoazobenzene	2B	P	Z	4,4'-Methylenebis (N,N-dimethyl) benzeneamine	2B	P	–
3,3'-Dimethylbenzidine	2B	P	–	4,4'-Methylenedianiline	2B	P	Z
3,3'-Dimethylbenzidine dihydrochloride	2B	P	–	Michler's ketone	–	P	–
3,3'-Dimethylbenzidine dihydrofluoride	2B	P	–	Mustard gas	1	K	–
Dimethylcarbamyl chloride	2A	P	–	alpha-Naphthylamine	–	–	Z
1,1-Dimethylhydrazine	2B	P	–	beta-Naphthylamine	1	K	Z
Dimethyl sulfate	2A	P	–	Nickel	2B	P	–
2,4-Dinitrotoluene	2B	–	–	Nickel compounds	1	P*	–
2,6-Dinitrotoluene	2B	–	–	Nitrilotriacetic acid	–	P	–
1,4-Dioxane	2B	P	–	Nitrobenzene	2B	–	–
1,2-Diphenylhydrazine	–	P	–	4-Nitrobiphenyl	–	–	Z
2,4-D isopropyl ester**	2B	–	–	Nitrofen	2B	P	–
2,4-DP**	2B	–	–	Nitrogen mustard	2A	–	–
2,4-D propylene glycol butyl ether ester**	2B	–	–	2-Nitropropane	2B	P	–
2,4-D sodium salt**	2B	–	–	N-Nitrosodi-n-butylamine	2B	P	–
Epichlorohydrin	2A	P	–	N-Nitrosodiethylamine	2A	P	–
Ethyl acrylate	2B	–	–	N-Nitrosodimethylamine	2A	P	Z
Ethyl benzene	2B	–	–	N-Nitrosodi-n-propylamine	2B	P	–
Ethyleneimine	–	–	Z	N-Nitroso-N-ethylurea	2A	P	–
Ethylene oxide	1	K	Z	N-Nitroso-N-methylurea	2A	P	–
Ethylene thiourea	–	P	–	N-Nitrosomethylvinylamine	2B	P	–
Formaldehyde	2A	P	Z	N-Nitrosomorpholine	2B	P	–
Heptachlor	2B	–	–	N-Nitrosornicotine	2B	P	–
Hexachlorobenzene	2B	P	–	N-Nitrosopiperidine	2B	P	–
alpha-Hexachlorocyclohexane	2B	P	–	Pentachlorophenol	2B	–	–
Hexachloroethane	2B	P	–	Phenytion	2B	P	–
Hexamethylphosphoramide	2B	P	–	Polybrominated biphenyls (PBBs)	2B	P	–
Hydrazine	2B	P	–	Polychlorinated alkanes (C ₁₂ , 60% chlorinated)	–	P	–
Hydrazine sulfate	–	P	–	Polychlorinated biphenyls (PCBs)	2A	P	–

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Polycyclic aromatic compounds (PACs):				Sodium o-phenylphenoxide	2B	–	–
Benz(a)anthracene	2A	P	–	Styrene	2B	–	–
Benzo(b)fluoranthene	2B	P	–	Styrene oxide	2A	–	–
Benzo(j)fluoranthene	2B	P	–	Tetrachloroethylene	2B	P	–
Benzo(k)fluoranthene	2B	P	–	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1	K	–
Benzo(rst)pentaphene	2B	–	–	Thioacetamide	2B	P	–
Benzo(a)pyrene	2A	P	–	4,4'-Thiodianiline	2B	–	–
Dibenz(a,h)acridine	2A	P	–	Thiourea	–	P	–
Dibenz(a,j)acridine	2B	P	–	Toluene-2,4-diisocyanate	2B	P	–
Dibenzo(a,h)anthracene	2B	P	–	Toluene-2,6-diisocyanate	2B	P	–
7H-Dibenzo(c,g)carbazole	2B	P	–	Toluene diisocyanate (mixed isomers)	2B	P	–
Dibenzo(a,e)pyrene	2B	P	–	o-Toluidine	2A	P	–
Dibenzo(a,h)pyrene	2B	P	–	o-Toluidine hydrochloride	–	P	–
Dibenzo(a,l)pyrene	2B	P	–	Toxaphene	2B	P	–
7,12-Dimethylbenz(a)anthracene	2B	–	–	Trichloroethylene	2A	P	–
Indeno[1,2,3-cd]pyrene	2B	P	–	2,4,6-Trichlorophenol	2B	P	–
5-Methylchrysene	2B	P	–	1,2,3-Trichloropropane	2A	P	–
1-Nitropyrene	2B	P	–	Tris(2,3-dibromopropyl)phosphate	2A	P	–
Potassium bromate	2B	–	–	Trypan blue	2B	–	–
Propane sultone	2B	P	–	Urethane	2B	P	–
beta-Propiolactone	2B	P	Z	Vinyl acetate	2B	–	–
Propyleneimine	2B	P	–	Vinyl bromide	2A	–	–
Propylene oxide	2B	P	–	Vinyl chloride	1	K	Z
Safrole	2B	P	–	2,6-Xylidine	2B	–	–

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