Appendix A: Hot Spots Unit Risk and Cancer Potency Values

Updated May 2019

Chemical		Chemical Abstract Service (CAS) Number	Source	Unit Risk $(\mu g/m^3)^{-1}$	Slope Factor $(mg/kg\text{-}day)^{-1}$	US EPA Class[C]	IARC Class[C]
Acetaldehyde		75-07-0	TAC	2.7 E-6	1.0 E-2	B2	2B
Acetamide		60-35-5	P65-E	2.0 E-5	7.0 E-2	NC	2B
Acrylamide		79-06-1	IRIS	1.3 E-3	4.5 E+0	B2	2A
Acrylonitrile		107-13-1	P65-S	2.9 E-4	1 .0 E+0	B1	2A
Allyl chloride		107-05-1	P65-S	6.0 E-6	2.1 E-2	C	3
2-Aminoanthraquinone		117-79-3	P65-E	9.4 E-6	3.3 E-2	NC	3
Aniline		62-53-3	IRIS	1.6 E-6	5.7 E-3	B2	3
Arsenic (inorganic)	(inhalation)	7440-38-2	TAC	3.3 E-3	1.2 E+1	A	1
	(oral)		IRIS		1.5 E+0		
Asbestos		1332-21-4	TAC	6.3 E-2	2.2 E+2	A	1
				1.9 E-4[#]			
Benz[*a*]anthracene[BaP]	(inhalation)	56-55-3	TAC	1.1 E-4	3.9 E-1	B2	2A
	(oral)				1.2 E+0		
Benzene		71-43-2	TAC	2.9 E-5	1.0 E-1	A	1
Benzidine		92-87-5	P65-S	1.4 E-1	5.0 E+2	A	1
Benzo[*a*]pyrene	(inhalation)	50-32-8	TAC	1.1 E-3	3.9 E+0	B2	2A
	(oral)				1.2 E+1		
Benzo[*b*]fluoranthrene[BaP]	(inhalation)	205-99-2	TAC	1.1 E-4	3.9 E-1	B2	2B
	(oral)				1.2 E+0		
Benzo[*j*]fluoranthrene[BaP]	(inhalation)	205-82-3	TAC	1.1 E-4	3.9 E-1	NC	2B
	(oral)				1.2 E+0		
Benzo[*k*]fluoranthrene[BaP]	(inhalation)	207-08-9	TAC	1.1 E-4	3.9 E-1	B2	2B
	(oral)				1.2 E+0		
Benzyl chloride		100-44-7	IRIS	4.9 E-5	1.7 E-1	B2	2B
Beryllium		7440-41-7	IRIS	2.4 E-3	8.4 E+0	B2	1
Bis(2-chloroethyl) ether		111-44-4	P65-S	7.1 E-4	2.5 E+0	B2	3
Bis(chloromethyl)ether		542-88-1	P65-S	1.3 E-2	4.6 E+1	A	1
1,3-Butadiene		106-99-0	TAC	1.7 E-4	6.0 E-1	B2	2A
Cadmium (and compounds)		7440-43-9	TAC	4.2 E-3	1.5 E+1	B1	1
Carbon tetrachloride		56-23-5	TAC	4.2 E-5	1.5 E-1	B2	2B
Chlorinated dibenzo-*p*-dioxins[A]		1746-01-6	TAC			B2	2B
2,3,7,8-Tetrachlorodibenzo-*p*-dioxin				3.8 E+1	1.3 E+5		
1,2,3,7,8-Pentachlorodibenzo-*p*-dioxin				3.8 E+1	1.3 E+5		
1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin				3.8 E+0	1.3 E+4		
1,2,3,6,7,8-Hexachlorodibenzo-*p*-dioxin				3.8 E+0	1.3 E+4		

Footnotes

A	see Appendix C
BaP	see benzo[*a*]pyrene TAC document
C	see Appendix E
D	Listed by ARB as "Particulate Matter from Diesel-Fueled Engines"; Scientific Review Panel unit risk "reasonable estimate" = 3.0 E-4 $(\mu g/m^3)^{-1}$. Range of unit risks in TAC document was 1.3 E-4 – 2.4 E-3 $(\mu g/m^3)^{-1}$.
N1	Nickel refinery dust and nickel subsulfide are in Class A; nickel carbonyl is in Class B2
N2	Nickel compounds are in Class 1; metallic nickel is in Class 2B
NA	not available
NC	not classified
#	[100 PCM fibers/m3]-1 ; see Appendix F
*	can be calculated using PEF factors contained in the benzo[*a*]pyrene TAC document
P	See PCB summary for risk categorization and TEF factors (Appendix C)

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Updated May 2019

Chemical		Chemical Abstract Service (CAS) Number	Source	Unit Risk $(\mu g/m^3)^{-1}$	Slope Factor $(mg/kg\text{-}day)^{-1}$	US EPA Class[C]	IARC Class[C]
1,2,3,7,8,9-Hexachlorodibenzo-*p*-dioxin				3.8 E+0	1.3 E+4		
1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin				3.8 E-1	1.3 E+3		
1,2,3,4,6,7,8,9-Octachlorodibenzo-*p*-dioxin				1.1 E-2	3.9 E+1		
Chlorinated dibenzofurans[A]		5120-73-19	TAC			B2	NC
2,3,7,8-Tetrachlorodibenzofuran				3.8 E+0	1.3 E+4		
1,2,3,7,8-Pentachlorodibenzofuran				1.1 E+0	3.9 E+3		
2,3,4,7,8-Pentachlorodibenzofuran				1.1 E+1	3.9 E+4		
1,2,3,4,7,8-Hexachlorodibenzofuran				3.8 E+0	1.3 E+4		
1,2,3,6,7,8-Hexachlorodibenzofuran				3.8 E+0	1.3 E+4		
1,2,3,7,8,9-Hexachlorodibenzofuran				3.8 E+0	1.3 E+4		
2,3,4,6,7,8-Hexachlorodibenzofuran				3.8 E+0	1.3 E+4		
1,2,3,4,6,7,8-Heptachlorodibenzofuran				3.8 E-1	1.3 E+3		
1,2,3,4,7,8,9-Heptachlorodibenzofuran				3.8 E-1	1.3 E+3		
1,2,3,4,6,7,8,9-Octachlorodibenzofuran				1.1 E-2	3.9 E+1		
Chlorinated paraffins		108171-26-2	P65-E	2.5 E-5	8.9 E-2	NC	2B
Chloroform		67-66-3	TAC	5.3 E-6	1.9 E-2	B2	2B
4-Chloro-*o*-phenylenediamine		95-83-0	P65-E	4.6 E-6	1.6 E-2	NC	2B
p-Chloro-*o*-toluidine		95-69-2	P65-E	7.7 E-5	2.7 E-1	NC	2A
Chromium (hexavalent)	(inhalation)	18540-29-9	TAC	1.5 E-1	5.1 E+2	A	1
	(oral)		P65-S		4.2 E-1		
Chrysene[BaP]	(inhalation)	218-01-9	TAC	1.1 E-5	3.9 E-2	B2	3
	(oral)				1.2 E-1		
Creosote		8001-58-9	HS	*	*	B1	2A
p-Cresidine		120-71-8	P65-E	4.3 E-5	1.5 E-1	NC	2B
Cupferron		135-20-6	P65-E	6.3 E-5	2.2 E-1	NC	NC
2,4-Diaminoanisole		615-05-4	P65-E	6.6 E-6	2.3 E-2	NC	2B
2,4-Diaminotoluene		95-80-7	P65-E	1.1 E-3	4.0 E+0	NC	2B
Dibenz[*a*,*h*]acridine[BaP]	(inhalation)	226-36-8	TAC	1.1 E-4	3.9 E-1	NC	2B
	(oral)				1.2 E+0		
Dibenz[*a*,*j*]acridine[BaP]	(inhalation)	224-42-0	TAC	1.1 E-4	3.9 E-1	NC	2B
	(oral)				1.2 E+0		
Dibenz[*a*,*h*]anthracene[BaP]		53-70-3	P65-E	1.2 E-3	4.1 E+0	B2	2A
Dibenzo[*a*,*e*]pyrene[BaP]	(inhalation)	192-65-4	TAC	1.1 E-3	3.9 E+0	NC	2B
	(oral)				1.2 E+1		

Footnotes

A	see Appendix C
BaP	see benzo[*a*]pyrene TAC document
C	see Appendix E
D	Listed by ARB as "Particulate Matter from Diesel-Fueled Engines"; Scientific Review Panel unit risk "reasonable estimate" = 3.0 E-4 $(\mu g/m^3)^{-1}$. Range of unit risks in TAC document was 1.3 E-4 – 2.4 E-3 $(\mu g/m^3)^{-1}$.
N1	Nickel refinery dust and nickel subsulfide are in Class A; nickel carbonyl is in Class B2
N2	Nickel compounds are in Class 1; metallic nickel is in Class 2B
NA	not available
NC	not classified
#	[100 PCM fibers/m3]-1 ; see Appendix F
*	can be calculated using PEF factors contained in the benzo[*a*]pyrene TAC document
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Updated May 2019

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Dibenzo[*a,h*]pyrene[BaP]	(inhalation)	189-64-0	TAC	1.1 E-2	3.9 E+1	NC	2B
	(oral)				1.2 E+2		
Dibenzo[*a,i*]pyrene[BaP]	(inhalation)	189-55-9	TAC	1.1 E-2	3.9 E+1	NC	2B
	(oral)				1.2 E+2		
Dibenzo[*a,l*]pyrene[BaP]	(inhalation)	191-30-0	TAC	1.1 E-2	3.9 E+1	NC	2B
	(oral)				1.2 E+2		
7H-Dibenzo[*c,g*]carbazole[BaP]	(inhalation)	194-59-2	TAC	1.1 E-3	3.9 E+0	NC	2B
	(oral)				1.2 E+1		
1,2-Dibromo-3-chloropropane		96-12-8	P65-S	2.0 E-3	7.0 E+0	NC	2B
1,4-Dichlorobenzene		106-46-7	P65-S	1.1 E-5	4.0 E-2	NC	2B
3,3'-Dichlorobenzidine		91-94-1	P65-S	3.4 E-4	1.2 E+0	B2	2B
1,1-Dichloroethane		75-34-3	P65-E	1.6 E-6	5.7 E-3	C	NC
Diesel exhaust		NA	TAC	3.0 E-4[D]	1.1 E+0	NC	2A
Diethylhexylphthalate		117-81-7	PETB	2.4 E-6	8.4 E-3	B2	2B
p-Dimethylaminoazobenzene		60-11-7	P65-E	1.3 E-3	4.6 E+0	NC	2B
7,12-Dimethylbenz[*a*]anthracene[BaP]		57-97-6	P65-E	7.1 E-2	2.5 E+2	NC	NC
1,6-Dinitropyrene[BaP]	(inhalation)	42397-64-8	TAC	1.1 E-2	3.9 E+1	NC	2B
	(oral)				1.2 E+2		
1,8-Dinitropyrene[BaP]	(inhalation)	42397-65-9	TAC	1.1 E-3	3.9 E+0	NC	2B
	(oral)				1.2 E+1		
2,4-Dinitrotoluene		121-14-2	P65-S	8.9 E-5	3.1 E-1	NC	2B
1,4-Dioxane		123-91-1	P65-S	7.7 E-6	2.7 E-2	B2	2B
Epichlorohydrin		106-89-8	P65-S	2.3 E-5	8.0 E-2	B2	2A
Ethylbenzene	(inhalation)	100-41-4	HS	2.5 E-6	8.7 E-3	D	2B
	(oral)				1.1 E-2		
Ethylene dibromide		106-93-4	TAC	7.1 E-5	2.5 E-1	B2	2A
Ethylene dichloride		107-06-2	TAC	2.1 E-5	7.2 E-2	B2	2B
Ethylene oxide		75-21-8	TAC	8.8 E-5	3.1 E-1	NC	1
Ethylene thiourea		96-45-7	P65-E	1.3 E-5	4.5 E-2	UR	2B
Formaldehyde		50-00-0	TAC	6.0 E-6	2.1 E-2	B1	2A
Hexachlorobenzene		118-74-1	P65-S	5.1 E-4	1.8 E+0	B2	2B
Hexachlorocyclohexanes (technical grade)		608-73-1	P65-S	1.1 E-3	4.0 E+0	B2	2B
Hydrazine	(inhalation)	302-01-2	IRIS	4.9 E-3	1.7 E+1	B2	2B
	(oral)				3.0 E+0		

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N1	Nickel refinery dust and nickel subsulfide are in Class A; nickel carbonyl is in Class B2
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Indeno[1,2,3-*cd*]pyrene[BaP]	(inhalation)	193-39-5	TAC	1.1 E-4	3.9 E-1	B2	2B
	(oral)				1.2 E+0		
Lead and lead compounds	(inhalation)	7439-92-1	TAC	1.2 E-5	4.2 E-2	B2	2B
	(oral)				8.5 E-3		
Lindane		58-89-9	P65-S	3.1 E-4	1.1 E+0	NC	2B
Methyl *tert*-butyl ether (MTBE)		1634-04-4	HS	2.6 E-7	1.8 E-3	NC	3
3-Methylcholanthrene[BaP]		56-49-5	P65-E	6.3 E-3	2.2 E+1	NC	NC
5-Methylchrysene[BaP]	(inhalation)	3697-24-3	TAC	1.1 E-3	3.9 E+0	NC	2B
	(oral)				1.2 E+1		
4, 4'-Methylene bis(2-chloroaniline)	(MOCA)	101-14-4	P65-E	4.3 E-4	1.5 E+0	NC	2A
Methylene chloride		75-09-2	TAC	1.0 E-6	3.5 E-3	B2	2B
4,4'-Methylenedianiline		101-77-9	P65-E	4.6 E-4	1.6 E+0	NC	2B
Michler's ketone		90-94-8	P65-E	2.5 E-4	8.6 E-1	NC	NC
Naphthalene		91-20-3	HS	3.4 E-5	1.2 E-1	NC	2B
Nickel (and compounds)		7440-02-0	TAC	2.6 E-4	9.1 E-1	A, B2[N1]	1,2B[N2]
5-Nitroacenaphthene[BaP]		602-87-9	P65-E	3.7 E-5	1.3 E-1	NC	2B
6-Nitrochrysene[BaP]	(inhalation)	7496-02-8	TAC	1.1 E-2	3.9 E+1	NC	2B
	(oral)				1.2 E+2		
2-Nitrofluorene[BaP]	(inhalation)	607-57-8	TAC	1.1 E-5	3.9 E-2	NC	2B
	(oral)				1.2 E-1		
1-Nitropyrene[BaP]	(inhalation)	5522-43-0	TAC	1.1 E-4	3.9 E-1	NC	2B
	(oral)				1.2 E+0		
4-Nitropyrene[BaP]	(inhalation)	57835-92-4	TAC	1.1 E-4	3.9 E-1	NC	2B
	(oral)				1.2 E+0		
N-Nitrosodi-n-butylamine		924-16-3	P65-S	3.1 E-3	1.1 E+1	B2	2B
N-Nitroso-N-methylethylamine		10595-95-6	IRIS	6.3 E-3	2.2 E+1	B2	2B
N-Nitrosodi-*n*-propylamine		621-64-7	IRIS	2.0 E-3	7.0 E+0	B2	2B
N-Nitrosodiethylamine		55-18-5	P65-S	1.0 E-2	3.6 E+1	B2	2A
N-Nitrosodimethylamine		62-75-9	P65-S	4.6 E-3	1.6 E+1	B2	2A
N-Nitrosodiphenylamine		86-30-6	P65-S	2.6 E-6	9.0 E-3	B2	3
p-Nitrosodiphenylamine		156-10-5	P65-E	6.3 E-6	2.2 E-2	NC	3
N-Nitrosomorpholine		59-89-2	P65-E	1.9 E-3	6.7 E+0	NC	2B
N-Nitrosopiperidine		100-75-4	P65-E	2.7 E-3	9.4 E+0	NC	2B
N-Nitrosopyrrolidine		930-55-2	IRIS	6.0 E-4	2.1 E+0	B2	2B
Pentachlorophenol		87-86-5	P65-S	5.1 E-6	1.8 E-2	B2	2B

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N1	Nickel refinery dust and nickel subsulfide are in Class A; nickel carbonyl is in Class B2
N2	Nickel compounds are in Class 1; metallic nickel is in Class 2B
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Perchloroethylene	(inhalation)	127-18-4	TAC	6.1 E-6	2.1 E-2	NC	2A
	(oral)		P65-S		5.1 E-2		
Polychlorinated biphenyls (PCBs)	(high risk)[P]	1336-36-3	IRIS	5.7 E-4	2.0 E+0	B2	2A
(for use with unspeciated	(low risk)[P]			1.1 E-4	4.0 E-1		
PCB mixtures)	(lowest risk)[P]			1.1 E-4	4.0 E-1		
				2.0 E-5	7.0 E-2		
(for use where measurements or estimates are available for PCB congeners)[P]							
PCB 77	3,3',4,4'-TCB			3.8 E-3	1.3 E+1		
PCB 81	3,4,4',5-TCB			1.1 E-2	3.9 E+1		
PCB 105	2,3,3',4,4'-PeCB			1.1 E-3	3.9 E+0		
PCB 114	2,3,4,4',5-PeCB			1.1 E-3	3.9 E+0		
PCB 118	2,3',4,4',5-PeCB			1.1 E-3	3.9 E+0		
PCB 123	2',3,4,4',5-PeCB			1.1 E-3	3.9 E+0		
PCB 126	3,3',4,4',5-PeCB			3.8 E+0	1.3 E+4		
PCB 156	2,3,3',4,4',5-HxCB			1.1 E-3	3.9 E+0		
PCB 157	2,3,3',4,4',5'-HxCB			1.1 E-3	3.9 E+0		
PCB 167	2,3',4,4',5,5'-HxCB			1.1 E-3	3.9 E+0		
PCB 169	3,3',4,4',5,5'-HxCB			1.1 E+0	3.9 E+3		
PCB 189	2,3,3',4,4',5,5'-HpCB			1.1 E-3	3.9 E+0		
Potassium bromate		7758-01-2	P65-E	1.4 E-4	4.9 E-1	NC	2B
1,3-Propane sultone		1120-71-4	P65-E	6.9 E-4	2.4 E+0	NC	2B
Propylene oxide	(inhalation)	75-56-9	IRIS	3.7 E-6	1.3 E-2	B2	2B
	(oral)				2.4 E-1		
Tertiary-butyl acetate	(inhalation)	540-88-5	HS	1.3 E-6	4.7 E-3	NC	NC
	(oral)				5.0 E-3		
1,1,2,2-Tetrachloroethane		79-34-5	IRIS	5.8 E-5	2.0 E-1	C	3
Thioacetamide		62-55-5	P65-E	1.7 E-3	6.1 E+0	NC	2B
2,4-Toluene diisocyanate		584-84-9	P65-E	1.1 E-5	3.9 E-2	NC	2B
2,6-Toluene diisocyanate		91-08-7	P65-E	1.1 E-5	3.9 E-2	NC	2B
1,1,2-Trichloroethane (vinyl trichloride)		79-00-5	IRIS	1.6 E-5	5.7 E-2	C	3
Trichloroethylene	(inhalation)	79-01-6	TAC	2.0 E-6	7.0 E-3	NC	2A
	(oral)		P65-S		1.5 E-2		
2,4,6-Trichlorophenol		88-06-2	P65-S	2.0 E-5	7.0 E-2	B2	2B
Urethane		51-79-6	P65-S	2.9 E-4	1.0 E+0	NC	2B
Vinyl chloride		75-01-4	TAC	7.8 E-5	2.7 E-1	NC	1

Footnotes

A	see Appendix C
BaP	see benzo[*a*]pyrene TAC document
C	see Appendix E
D	Listed by ARB as "Particulate Matter from Diesel-Fueled Engines"; Scientific Review Panel unit risk "reasonable estimate" = 3.0 E-4 $(\mu g/m^3)^{-1}$. Range of unit risks in TAC document was 1.3 E-4 – 2.4 E-3 $(\mu g/m^3)^{-1}$.
N1	Nickel refinery dust and nickel subsulfide are in Class A; nickel carbonyl is in Class B2
N2	Nickel compounds are in Class 1; metallic nickel is in Class 2B
NA	not available
NC	not classified
#	[100 PCM fibers/m3]-1 ; see Appendix F
*	can be calculated using PEF factors contained in the benzo[*a*]pyrene TAC document
P	See chemical summary for risk categorization and TEF factors (Appendix C)

Source Key

TAC	Toxic Air Contaminant document, Office of Environmental Health Hazard Assessment (OEHHA)
P65-S	Standard Proposition 65 document, OEHHA
IRIS	Integrated Risk Information System, U.S. Environmental Protection Agency (US EPA)
P65-E	Expedited Proposition 65 document, OEHHA
HS	Air Toxics Hot Spots document, Air and Site Assessment and Climate Indicators Branch, OEHHA
PETB	Public Health Goal document, Pesticide and Environmental Toxicology Branch, OEHHA