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)

Source Key

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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]
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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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		

Footnotes

- A see Appendix C
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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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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]
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

Footnotes

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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
NA	not available
NC	not classified
#	[100 PCM fibers/m3]-1 ; see Appendix F
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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 *et* al.
PETB	Public Health Goal document, Pesticide and Environmental Toxicology Branch, OEHHA