

APPENDIX I-A

List of Compounds and their Associated Unit Risk Factors (URF)

Hot Spots Unit Risk and Cancer Potency Values June 9, 1999*

Chemical	Chemical Abstract Service (CAS) Number	Source	Unit Risk ($\mu\text{g}/\text{m}^3)^{-1}$	Slope Factor ($\text{mg}/\text{kg}\cdot\text{day})^{-1}$	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	RCHAS-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	RCHAS-S	2.9 E-4	1.0 E+0	B1	2A
Allyl chloride	107-05-1	RCHAS-S	6.0 E-6	2.1 E-2	C	3
2-Aminoanthraquinone	117-79-3	RCHAS-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)	7440-38-2	TAC	3.3 E-3	1.2 E+1	A	1
(inhalation)		IRIS		1.5 E+0		
Asbestos	1332-21-4	TAC	6.3 E-2	NA	A	1
(oral)			1.9 E-4 [#]			
Benz[a]anthracene ^{BaP}	56-55-3	TAC	1.1 E-4	3.9 E-1	B2	2A
(inhalation)				1.2 E+0		
(oral)						
Benzene	71-43-2	TAC	2.9 E-5	1.0 E-1	A	1
Benzidine	92-87-5	RCHAS-S	1.4 E-1	5.0 E+2	A	1
Benzo[a]pyrene	50-32-8	TAC	1.1 E-3	3.9 E+0	B2	2A
(inhalation)				1.2 E+1		
(oral)						
Benzo[b]fluoranthrene ^{BaP}	205-99-2	TAC	1.1 E-4	3.9 E-1	B2	2B
(inhalation)				1.2 E+0		
(oral)						
Benzo[j]fluoranthrene ^{BaP}	205-82-3	TAC	1.1 E-4	3.9 E-1	NC	2B
(inhalation)				1.2 E+0		
(oral)						
Benzo[k]fluoranthrene ^{BaP}	207-08-9	TAC	1.1 E-4	3.9 E-1	B2	2B
(inhalation)				1.2 E+0		
(oral)						
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	RCHAS-S	7.1 E-4	2.5 E+0	B2	3
Bis(chloromethyl) ether	542-88-1	RCHAS-S	1.3 E-2	4.6 E+2	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- <i>p</i> -dioxins ^A	1746-01-6	TAC			B2	2B
2,3,7,8-Tetrachlorodibenzo- <i>p</i> -dioxin			3.8 E+1	1.3 E+5		
1,2,3,7,8-Pentachlorodibenzo- <i>p</i> -dioxin			1.9 E+1	6.5 E+4		
1,2,3,4,7,8-Hexachlorodibenzo- <i>p</i> -dioxin			3.8 E+0	1.3 E+4		
1,2,3,6,7,8-Hexachlorodibenzo- <i>p</i> -dioxin			3.8 E+0	1.3 E+4		
1,2,3,7,8,9-Hexachlorodibenzo- <i>p</i> -dioxin			3.8 E+0	1.3 E+4		

Footnotes

- A see Appendix A
- BaP see benzo[a]pyrene TAC document
- C see Appendix C
- D Listed by ARB as "Particulate Matter from Diesel-Fueled Engines"; Scientific Review Panel unit risk "reasonable estimate" = $3.0 \text{ E-4 } (\mu\text{g}/\text{m}^3)^{-1}$.
Range of unit risks in TAC document was $1.3 \text{ E-4} - 1.5 \text{ E-3 } (\mu\text{g}/\text{m}^3)^{-1}$.
- 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 D
- * can be calculated using PEF factors contained in the benzo[a]pyrene TAC document
- P1 For use in cases where congeners with more than four chlorines do not comprise less than one-half percent of total PCBs
- P2 For use in cases where congeners with more than four chlorines comprise less than one-half percent of total PCBs

Source Key

- TAC Toxic Air Contaminant document, Office of Environmental Health Hazard Assessment (OEHHA)
- RCHAS-S Standard Proposition 65 document, OEHHA
- IRIS Integrated Risk Information System, U.S. Environmental Protection Agency (US EPA)
- RCHAS-E Expedited Proposition 65 document, OEHHA
- ATES Air Toxicology and Epidemiology Section document, OEHHA
- PETS Pesticide and Environmental Toxicology Section Public Health Goal document, OEHHA

* Technical Support Document for Using Cancer Potency Factors, OEHHA,
<http://www.oehha.ca.gov/scientific/hsc2.htm>,
 downloaded November 2, 1999

Hot Spots Unit Risk and Cancer Potency Values

Chemical	Chemical Abstract Service (CAS) Number	Source	Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	Slope Factor ($\text{mg}/\text{kg}\cdot\text{day}$) ⁻¹	US EPA Class ^c	IARC Class ^c
1,2,3,4,6,7,8-Heptachlorodibenzo- <i>p</i> -dioxin	5120-73-19	TAC	3.8 E-1	1.3 E+3	B2	NC
1,2,3,4,5,6,7,8-Octachlorodibenzo- <i>p</i> -dioxin			3.8 E-2	1.3 E+2		
Chlorinated dibenzofurans ^a						
2,3,7,8-Tetrachlorodibenzofuran			3.8 E+0	1.3 E+4		
1,2,3,7,8-Pentachlorodibenzofuran			1.9 E+0	6.5 E+3		
2,3,4,7,8-Pentachlorodibenzofuran			1.9 E+1	6.5 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		
1,2,3,4,5,6,7,8-Octachlorodibenzofuran			3.8 E-2	1.3 E+2		
Chlorinated paraffins	108171-26-2	RCHAS-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- <i>o</i> -phenylenediamine	95-83-0	RCHAS-E	4.6 E-6	1.6 E-2	NC	2B
<i>p</i> -Chloro- <i>o</i> -toluidine	95-69-2	RCHAS-E	7.7 E-5	2.7 E-1	NC	2A
Chromium (hexavalent)	18540-29-9	TAC	1.5 E-1	5.1 E+2	A	1
(inhalation)						
(oral)		RCHAS-S		4.2 E-1		
Chrysene ^{BaP}	218-01-9	TAC	1.1 E-5	3.9 E-2	B2	3
(oral)				1.2 E-1		
Creosote	8001-58-9	ATES	*	*	B1	2A
<i>p</i> -Cresidine	120-71-8	RCHAS-E	4.3 E-5	1.5 E-1	NC	2B
Cupferron	135-20-6	RCHAS-E	6.3 E-5	2.2 E-1	NC	NC
2,4-Diaminoanisole	615-05-4	RCHAS-E	6.6 E-6	2.3 E-2	NC	2B
2,4-Diaminotoluene	95-80-7	RCHAS-E	1.1 E-3	4.0 E+0	NC	2B
Dibenz[<i>a,h</i>]acridine ^{BaP}	226-36-8	TAC	1.1 E-4	3.9 E-1	NC	2B
(inhalation)				1.2 E+0		
(oral)				1.2 E+0		
Dibenz[<i>a,f</i>]acridine ^{BaP}	224-42-0	TAC	1.1 E-4	3.9 E-1	NC	2B
(inhalation)				1.2 E+0		
(oral)				1.2 E+0		
Dibenz[<i>a,h</i>]anthracene ^{BaP}	53-70-3	RCHAS-E	1.2 E-3	4.1 E+0	B2	2A
Dibenzo[<i>a,e</i>]pyrene ^{BaP}	192-65-4	TAC	1.1 E-3	3.9 E+0	NC	2B
(inhalation)				1.2 E+1		
(oral)				3.9 E+1		
Dibenzo[<i>a,h</i>]pyrene ^{BaP}	189-64-0	TAC	1.1 E-2	3.9 E+1	NC	2B
(inhalation)				1.2 E+2		
(oral)				1.2 E+2		

Footnotes

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 C see Appendix C
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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 D
 * can be calculated using PEF factors contained in the benzo[*a*]pyrene TAC document
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Dibenzo[a,f]pyrene ^{BaP} (inhalation)	189-55-9	TAC	1.1 E-2	3.9 E+1	NC	2B
Dibenzo[a,f]pyrene ^{BaP} (oral)	189-55-9	TAC	1.1 E-2	1.2 E+2	NC	2B
Dibenzo[a,f]pyrene ^{BaP} (inhalation)	191-30-0	TAC	1.1 E-2	3.9 E+1	NC	2B
Dibenzo[a,f]pyrene ^{BaP} (oral)	191-30-0	TAC	1.1 E-2	1.2 E+2	NC	2B
7H-Dibenzo[c,g]carbazole ^{BaP} (inhalation)	194-59-2	TAC	1.1 E-3	3.9 E+0	NC	2B
7H-Dibenzo[c,g]carbazole ^{BaP} (oral)	194-59-2	TAC	1.1 E-3	1.2 E+1	NC	2B
1,2-Dibromo-3-chloropropane	96-12-8	RCHAS-S	2.0 E-3	7.0 E+0	NC	2B
1,4-Dichlorobenzene	106-46-7	RCHAS-S	1.1 E-5	4.0 E-2	NC	2B
3,3'-Dichlorobenzidine	91-94-1	RCHAS-S	3.4 E-4	1.2 E+0	B2	2B
1,1-Dichloroethane	75-34-3	RCHAS-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	PETS	2.4 E-6	8.4 E-3	B2	2B
p-Dimethylaminoazobenzene	60-11-7	RCHAS-E	1.3 E-3	4.6 E+0	NC	2B
7,12-Dimethylbenz[a]anthracene ^{BaP}	57-97-6	RCHAS-E	7.1 E-2	2.5 E+2	NC	NC
1,6-Dinitropyrene ^{BaP} (inhalation)	4239-76-48	TAC	1.1 E-2	3.9 E+1	NC	2B
1,6-Dinitropyrene ^{BaP} (oral)	4239-76-48	TAC	1.1 E-2	1.2 E+2	NC	2B
1,8-Dinitropyrene ^{BaP} (inhalation)	4239-76-59	TAC	1.1 E-3	3.9 E+0	NC	2B
1,8-Dinitropyrene ^{BaP} (oral)	4239-76-59	TAC	1.1 E-3	1.2 E+1	NC	2B
2,4-Dinitrotoluene	121-14-2	RCHAS-S	8.9 E-5	3.1 E-1	NC	2B
1,4-Dioxane	123-91-1	RCHAS-S	7.7 E-6	2.7 E-2	B2	2B
Epichlorohydrin	106-89-8	RCHAS-S	2.3 E-5	8.0 E-2	B2	2A
Ethylene dibromide	106-93-4	TAC	7.1 E-5	2.5 E-1	B2	2A
Ethylene dichloride	107-06-2	TAC	2.2 E-5	7.0 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	RCHAS-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	RCHAS-S	5.1 E-4	1.8 E+0	B2	2B
Hexachlorocyclohexanes (technical grade)	608-73-1	RCHAS-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
Hydrazine (oral)	302-01-2	IRIS	4.9 E-3	3.0 E+0	B2	2B
Indeno[1,2,3-cd]pyrene ^{BaP} (inhalation)	193-39-5	TAC	1.1 E-4	3.9 E-1	B2	2B
Indeno[1,2,3-cd]pyrene ^{BaP} (oral)	193-39-5	TAC	1.1 E-4	1.2 E+0	B2	2B
Lead and lead compounds (inhalation)	7439-92-1	TAC	1.2 E-5	4.2 E-2	B2	2B
Lead and lead compounds (oral)	7439-92-1	TAC	1.2 E-5	8.5 E-3	B2	2B
Lindane	58-89-9	RCHAS-S	3.1 E-4	1.1 E+0	NC	2B

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- NC not classified
- # [100 PCM fibers/m³]-1 ; see Appendix D
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3-Methylcholanthrene ^{BaP}	56-49-5	RCHAS-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	RCHAS-E	4.3 E-4	1.5 E+0	NC	2A
Methylene chloride (inhalation)	75-09-2	TAC	1.0 E-6	3.5 E-3	B2	2B
4,4'-Methylenedianiline	101-77-9	RCHAS-E	4.6 E-4	1.6 E+0	NC	2B
Michler's ketone	90-94-8	RCHAS-E	2.5 E-4	8.6 E-1	NC	NC
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	RCHAS-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-Nitroso-n-dibutylamine	924-16-3	RCHAS-S	3.1 E-3	1.1 E+1	B2	2B
N-Nitroso-N-methylethylamine	10595-95-6	IRIS	6.3 E-3	3.7 E+0	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	RCHAS-S	1.0 E-2	3.6 E+1	B2	2A
N-Nitrosodimethylamine	62-75-9	RCHAS-S	4.6 E-3	1.6 E+1	B2	2A
N-Nitrosodiphenylamine	86-30-6	RCHAS-S	2.6 E-6	9.0 E-3	B2	3
p-Nitrosodiphenylamine	156-10-5	RCHAS-E	6.3 E-6	2.2 E-2	NC	3
N-Nitrosomorpholine	59-89-2	RCHAS-E	1.9 E-3	6.7 E+0	NC	2B
N-Nitrosopiperidine	100-75-4	RCHAS-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	RCHAS-S	5.1 E-6	1.8 E-2	B2	2B
Perchloroethylene (inhalation)	127-18-4	TAC	5.9 E-6	2.1 E-2	NC	2A
(oral)		RCHAS-S		5.1 E-2		
Polychlorinated biphenyls (PCBs) (high risk) ^{P1}	1336-36-3	IRIS	5.7 E-4	2.0 E+0	B2	2A
(low risk) ^{P2}			2.0 E-5	7.0 E-2		
Potassium bromate	7758-01-2	RCHAS-E	1.4 E-4	4.9 E-1	NC	2B
1,3-Propane sultone	1120-71-4	RCHAS-E	6.9 E-4	2.4 E+0	NC	2B

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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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Propylene oxide (inhalation) (oral)	75-56-9	IRIS	3.7 E-6	1.3 E-2 2.4 E-1	B2	2B
1,1,2,2-Tetrachloroethane	79-34-5	IRIS	5.8 E-5	2.0 E-1	C	3
Thioacetamide	62-55-5	RCHAS-E	1.7 E-3	6.1 E+1	NC	2B
2,4-Toluene diisocyanate	584-84-9	RCHAS-E	1.1 E-5	3.9 E-2	NC	2B
2,6-Toluene diisocyanate	91-08-7	RCHAS-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) (oral)	79-01-6	TAC	2.0 E-6	1.0 E-2	NC	2A
		RCHAS-S		1.5 E-2		
2,4,6-Trichlorophenol	88-06-2	RCHAS-S	2.0 E-5	7.0 E-2	B2	2B
Urethane	51-79-6	RCHAS-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

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 D Listed by ARB as "Particulate Matter from Diesel-Fueled Engines"; Scientific Review Panel unit risk "reasonable estimate" = 3.0 E-4 ($\mu\text{g}/\text{m}^3$)⁻¹.
 Range of unit risks in TAC document was 1.3 E-4 - 1.5 E-3 ($\mu\text{g}/\text{m}^3$)⁻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 D
 * can be calculated using PEF factors contained in the benzo[a]pyrene TAC document
 P1 For use in cases where congeners with more than four chlorines do not comprise less than one-half percent of total PCBs
 P2 For use in cases where congeners with more than four chlorines comprise less than one-half percent of total PCBs

Source Key

- TAC Toxic Air Contaminant document, Office of Environmental Health Hazard Assessment (OEHHA)
 RCHAS-S Standard Proposition 65 document, OEHHA
 IRIS Integrated Risk Information System, U.S. Environmental Protection Agency (US EPA)
 RCHAS-E Expedited Proposition 65 document, OEHHA
 ATES Air Toxicology and Epidemiology Section document, OEHHA
 PETS Pesticide and Environmental Toxicology Section Public Health Goal document, OEHHA