Technical Support Document for Using Cancer Potency Factors

The Technical Support Document for Describing Available Cancer Potency Factors (TSD) contains cancer unit risks and potency factors for 119 of the 201 carcinogenic substances or groups of substances for which emissions must be quantified in the Air Toxics Hot Spots program. The purpose of this document is to provide a summary of the data supporting the carcinogenic potential of the substance or group of substances and to provide the calculation procedure used to derive the estimated unit risk and cancer potency factors.

The Risk Assessment Advisory Committee (RAAC) report made several recommendations regarding harmonization within Cal/EPA and with US EPA. The TSD has made an effort to implement the RAAC recommendations regarding harmonization both in spirit and in substance. For example, the cancer unit risk and potency factor values developed by OEHHA that are contained in the TSD were reviewed by a Cal/EPA working group to ensure agency-wide consistency and harmonization.

Note
A correction was made to this document on June 9, 1999. (A correction to the cancer potency for dibenz[a,h]anthracene from 1.2E-4 to 1.2E-3)

Download a corrected document if you obtained your copy prior to June 9, 1999.

Download the document in PDF format.

Download ONLY the table of Hot Spots Unit Risks and Cancer Potency Values

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Last Updated June 9, 1999

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HotSpotsUnitRiskandCancerPotencyValuesJune9,1999

Chemical		ChemicalAbstract Service(CAS) Number	Source	UnitRisk $(\mu g/m^3)^{-1}$	SlopeFactor $(mg/kg\text{-}day)^{-1}$	USEPA Class[C]	IARC Class[C]
Acetaldehyde		75-07-0	TAC	2.7E-6	1.0E-2	B2	2B
Acetamide		60-35-5	RCHAS-E	2.0E-5	7.0E-2	NC	2B
Acrylamide		79-06-1	IRIS	1.3E-3	4.5E+0	B2	2A
Acrylonitrile		107-13-1	RCHAS-S	2.9E-4	1.0E+0	B1	2A
Allylchloride		107-05-1	RCHAS-S	6.0E-6	2.1E-2	C	3
2-Aminoanthraquinone		117-79-3	RCHAS-E	9.4E-6	3.3E-2	NC	3
Aniline		62-53-3	IRIS	1.6E-6	5.7E-3	B2	3
Arsenic(inorganic)	(inhalation)	7440-38-2	TAC	3.3E-3	1.2E+1	A	1
	(oral)		IRIS		1.5E+0		
Asbestos		1332-21-4	TAC	6.3E-2	NA	A	1
				1.9E-4[#]			
Benz[*a*]anthracene[BaP]	(inhalation)	56-55-3	TAC	1.1E-4	3.9E-1	B2	2A
	(oral)				1.2E+0		
Benzene		71-43-2	TAC	2.9E-5	1.0E-1	A	1
Benzidine		92-87-5	RCHAS-S	1.4E-1	5.0E+2	A	1
Benzo[*a*]pyrene	(inhalation)	50-32-8	TAC	1.1E-3	3.9E+0	B2	2A
	(oral)				1.2E+1		
Benzo[*b*]fluoranthrene[BaP]	(inhalation)	205-99-2	TAC	1.1E-4	3.9E-1	B2	2B
	(oral)				1.2E+0		
Benzo[*j*]fluoranthrene[BaP]	(inhalation)	205-82-3	TAC	1.1E-4	3.9E-1	NC	2B
	(oral)				1.2E+0		
Benzo[*k*]fluoranthrene[BaP]	(inhalation)	207-08-9	TAC	1.1E-4	3.9E-1	B2	2B
	(oral)				1.2E+0		
Benzylchloride		100-44-7	IRIS	4.9E-5	1.7E-1	B2	2B
Beryllium		7440-41-7	IRIS	2.4E-3	8.4E+0	B2	1
Bis(2-chloroethyl)ether		111-44-4	RCHAS-S	7.1E-4	2.5E+0	B2	3
Bis(chloromethyl)ether		542-88-1	RCHAS-S	1.3E-2	4.6E+2	A	1
1,3-Butadiene		106-99-0	TAC	1.7E-4	6.0E-1	B2	2A
Cadmium(andcompounds)		7440-43-9	TAC	4.2E-3	1.5E+1	B1	1
Carbontetrachloride		56-23-5	TAC	4.2E-5	1.5E-1	B2	2B
Chlorinated dibenzo-*p*-dioxins[A]		1746-01-6	TAC			B2	2B
2,3,7,8-Tetrachlorodibenzo-*p*-dioxin				3.8E+1	1.3E+5		
1,2,3,7,8-Pentachlorodibenzo-*p*-dioxin				1.9E+1	6.5E+4		
1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin				3.8E+0	1.3E+4		
1,2,3,6,7,8-Hexachlorodibenzo-*p*-dioxin				3.8E+0	1.3E+4		
1,2,3,7,8,9-Hexachlorodibenzo-*p*-dioxin				3.8E+0	1.3E+4		

Footnotes

A seeAppendixA
BaP see benzo[*a*]pyreneTACdocument
C seeAppendixC
D ListedbyARBas"ParticulateMatterfromDiesel-FueledEngines"; ScientificReviewPanelunitri sk"reasonableestimate"=3.0E-4 $(\mu g/m^3)^{-1}$. RangeofunitrisksinTACdocumentwas1.3E-4-1.5E-3$(\mu g/m^3)^{-1}$.
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N2 NickelcompoundsareinClass1;metallic nickelisinClass2B
NA notavailable
NC notclassified
[100PCMfibers/m3]-1;seeAppendixD
* canbecalculatedusingPEFfactorscontainedinthebenzo[*a*]pyrene TACdocument
P1 Foruseincaseswherecongenerswithmorethanfourchlorinesdo notcompriselessthan one-halfpercentoftotalPCBs
P2 Foruseincaseswherecongenerswithmorethanfourchlorines compriselessthan one-halfpercentoftotalPCBs

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1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin				3.8E-1	1.3E+3		
1,2,3,4,5,6,7,8-Octachlorodibenzo-*p*-dioxin				3.8E-2	1.3E+2		
Chlorinated dibenzofurans[A]		5120-73-19	TAC			B2	NC
2,3,7,8-Tetrachlorodibenzofuran				3.8E+0	1.3E+4		
1,2,3,7,8-Pentachlorodibenzofuran				1.9E+0	6.5E+3		
2,3,4,7,8-Pentachlorodibenzofuran				1.9E+1	6.5E+4		
1,2,3,4,7,8-Hexachlorodibenzofuran				3.8E+0	1.3E+4		
1,2,3,6,7,8-Hexachlorodibenzofuran				3.8E+0	1.3E+4		
1,2,3,7,8,9-Hexachlorodibenzofuran				3.8E+0	1.3E+4		
2,3,4,6,7,8-Hexachlorodibenzofuran				3.8E+0	1.3E+4		
1,2,3,4,6,7,8-Heptachlorodibenzofuran				3.8E-1	1.3E+3		
1,2,3,4,7,8,9-Heptachlorodibenzofuran				3.8E-1	1.3E+3		
1,2,3,4,5,6,7,8-Octachlorodibenzofuran				3.8E-2	1.3E+2		
Chlorinated paraffins		108171-26-2	RCHAS-E	2.5E-5	8.9E-2	NC	2B
Chloroform		67-66-3	TAC	5.3E-6	1.9E-2	B2	2B
4-Chloro-*o*-phenylenediamine		95-83-0	RCHAS-E	4.6E-6	1.6E-2	NC	2B
p-Chloro-*o*-toluidine		95-69-2	RCHAS-E	7.7E-5	2.7E-1	NC	2A
Chromium(hexavalent)	(inhalation)	18540-29-9	TAC	1.5E-1	5.1E+2	A	1
	(oral)		RCHAS-S		4.2E-1		
Chrysene[BaP]	(inhalation)	218-01-9	TAC	1.1E-5	3.9E-2	B2	3
	(oral)				1.2E-1		
Creosote		8001-58-9	ATES	*	*	B1	2A
p-Cresidine		120-71-8	RCHAS-E	4.3E-5	1.5E-1	NC	2B
Cupferron		135-20-6	RCHAS-E	6.3E-5	2.2E-1	NC	NC
2,4-Diaminoanisole		615-05-4	RCHAS-E	6.6E-6	2.3E-2	NC	2B
2,4-Diaminotoluene		95-80-7	RCHAS-E	1.1E-3	4.0E+0	NC	2B
Dibenz[*a,h*]acridine[BaP]	(inhalation)	226-36-8	TAC	1.1E-4	3.9E-1	NC	2B
	(oral)				1.2E+0		
Dibenz[*a,j*]acridine[BaP]	(inhalation)	224-42-0	TAC	1.1E-4	3.9E-1	NC	2B
	(oral)				1.2E+0		
Dibenz[*a,h*]anthracene[BaP]		53-70-3	RCHAS-E	1.2E-3	4.1E+0	B2	2A
Dibenzo[*a,e*]pyrene[BaP]	(inhalation)	192-65-4	TAC	1.1E-3	3.9E+0	NC	2B
	(oral)				1.2E+1		
Dibenzo[*a,h*]pyrene[BaP]	(inhalation)	189-64-0	TAC	1.1E-2	3.9E+1	NC	2B
	(oral)				1.2E+2		

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Chemical		ChemicalAbstract Service(CAS) Number	Source	UnitRisk $(\mu g/m^3)^{-1}$	SlopeFactor $(mg/kg\text{-}day)^{-1}$	USEPA Class[C]	IARC Class[C]
Dibenzo[*a,i*]pyrene[BaP]	(inhalation) (oral)	189-55-9	TAC	1.1E-2	3.9E+1 1.2E+2	NC	2B
Dibenzo[*a,l*]pyrene[BaP]	(inhalation) (oral)	191-30-0	TAC	1.1E-2	3.9E+1 1.2E+2	NC	2B
7H-Dibenzo[*c,g*]carbazole[BaP]	(inhalation) (oral)	194-59-2	TAC	1.1E-3	3.9E+0 1.2E+1	NC	2B
1,2-Dibromo-3-chloropropane		96-12-8	RCHAS-S	2.0E-3	7.0E+0	NC	2B
1,4-Dichlorobenzene		106-46-7	RCHAS-S	1.1E-5	4.0E-2	NC	2B
3,3'-Dichlorobenzidine		91-94-1	RCHAS-S	3.4E-4	1.2E+0	B2	2B
1,1-Dichloroethane		75-34-3	RCHAS-E	1.6E-6	5.7E-3	C	NC
Dieselexhaust		NA	TAC	3.0E-4[D]	1.1E+0	NC	2A
Diethylhexylphthalate		117-81-7	PETS	2.4E-6	8.4E-3	B2	2B
p-Dimethylaminoazobenzene		60-11-7	RCHAS-E	1.3E-3	4.6E+0	NC	2B
7,12-Dimethylbenz[*a*]anthracene[BaP]		57-97-6	RCHAS-E	7.1E-2	2.5E+2	NC	NC
1,6-Dinitropyrene[BaP]	(inhalation) (oral)	4239-76-48	TAC	1.1E-2	3.9E+1 1.2E+2	NC	2B
1,8-Dinitropyrene[BaP]	(inhalation) (oral)	4239-76-59	TAC	1.1E-3	3.9E+0 1.2E+1	NC	2B
2,4-Dinitrotoluene		121-14-2	RCHAS-S	8.9E-5	3.1E-1	NC	2B
1,4-Dioxane		123-91-1	RCHAS-S	7.7E-6	2.7E-2	B2	2B
Epichlorohydrin		106-89-8	RCHAS-S	2.3E-5	8.0E-2	B2	2A
Ethylene dibromide		106-93-4	TAC	7.1E-5	2.5E-1	B2	2A
Ethylenedichloride		107-06-2	TAC	2.2E-5	7.0E-2	B2	2B
Ethyleneoxide		75-21-8	TAC	8.8E-5	3.1E-1	NC	1
Ethylene thiourea		96-45-7	RCHAS-E	1.3E-5	4.5E-2	UR	2B
Formaldehyde		50-00-0	TAC	6.0E-6	2.1E-2	B1	2A
Hexachlorobenzene		118-74-1	RCHAS-S	5.1E-4	1.8E+0	B2	2B
Hexachlorocyclohexanes(technicalgrade)		608-73-1	RCHAS-S	1.1E-3	4.0E+0	B2	2B
Hydrazine	(inhalation) (oral)	302-01-2	IRIS	4.9E-3	1.7E+1 3.0E+0	B2	2B
Indeno[1,2,3-*cd*]pyrene[BaP]	(inhalation) (oral)	193-39-5	TAC	1.1E-4	3.9E-1 1.2E+0	B2	2B
Leadandleadcompounds	(inhalation) (oral)	7439-92-1	TAC	1.2E-5	4.2E-2 8.5E-3	B2	2B
Lindane		58-89-9	RCHAS-S	3.1E-4	1.1E+0	NC	2B

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3-Methylcholanthrene[BaP]		56-49-5	RCHAS-E	6.3E-3	2.2E+1	NC	NC
5-Methylchrysene[BaP]	(inhalation)	3697-24-3	TAC	1.1E-3	3.9E+0	NC	2B
	(oral)				1.2E+1		
4,4'-Methylene bis(2-chloroaniline)(MOCA)		101-14-4	RCHAS-E	4.3E-4	1.5E+0	NC	2A
Methylenechloride	(inhalation)	75-09-2	TAC	1.0E-6	3.5E-3	B2	2B
4,4'-Methylenedianiline		101-77-9	RCHAS-E	4.6E-4	1.6E+0	NC	2B
Michler's ketone		90-94-8	RCHAS-E	2.5E-4	8.6E-1	NC	NC
Nickel(andcompounds)		7440-02-0	TAC	2.6E-4	9.1E-1	A,B2[N1]	1,2B[N2]
5-Nitroacenaphthene[BaP]		602-87-9	RCHAS-E	3.7E-5	1.3E-1	NC	2B
6-Nitrochrysene[BaP]	(inhalation)	7496-02-8	TAC	1.1E-2	3.9E+1	NC	2B
	(oral)				1.2E+2		
2-Nitrofluorene[BaP]	(inhalation)	607-57-8	TAC	1.1E-5	3.9E-2	NC	2B
	(oral)				1.2E-1		
1-Nitropyrene[BaP]	(inhalation)	5522-43-0	TAC	1.1E-4	3.9E-1	NC	2B
	(oral)				1.2E+0		
4-Nitropyrene[BaP]	(inhalation)	57835-92-4	TAC	1.1E-4	3.9E-1	NC	2B
	(oral)				1.2E+0		
N-Nitroso-n-dibutylamine		924-16-3	RCHAS-S	3.1E-3	1.1E+1	B2	2B
N-Nitroso-N-methylethylamine		10595-95-6	IRIS	6.3E-3	3.7E+0	B2	2B
N-Nitrosodi-*n*-propylamine		621-64-7	IRIS	2.0E-3	7.0E+0	B2	2B
N-Nitrosodiethylamine		55-18-5	RCHAS-S	1.0E-2	3.6E+1	B2	2A
N-Nitrosodimethylamine		62-75-9	RCHAS-S	4.6E-3	1.6E+1	B2	2A
N-Nitrosodiphenylamine		86-30-6	RCHAS-S	2.6E-6	9.0E-3	B2	3
p-Nitrosodiphenylamine		156-10-5	RCHAS-E	6.3E-6	2.2E-2	NC	3
N-Nitrosomorpholine		59-89-2	RCHAS-E	1.9E-3	6.7E+0	NC	2B
N-Nitrosopiperidine		100-75-4	RCHAS-E	2.7E-3	9.4E+0	NC	2B
N-Nitrosopyrrolidine		930-55-2	IRIS	6.0E-4	2.1E+0	B2	2B
Pentachlorophenol		87-86-5	RCHAS-S	5.1E-6	1.8E-2	B2	2B
Perchloroethylene	(inhalation)	127-18-4	TAC	5.9E-6	2.1E-2	NC	2A
	(oral)		RCHAS-S		5.1E-2		
Polychlorinated biphenyls(PCBs)	(highrisk) [P1]	1336-36-3	IRIS	5.7E-4	2.0E+0	B2	2A
	(lowrisk) [P2]			2.0E-5	7.0E-2		
Potassium bromate		7758-01-2	RCHAS-E	1.4E-4	4.9E-1	NC	2B
1,3-Propane sultone		1120-71-4	RCHAS-E	6.9E-4	2.4E+0	NC	2B

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Propyleneoxide	(inhalation)	75-56-9	IRIS	3.7E-6	1.3E-2	B2	2B
	(oral)				2.4E-1		
1,1,2,2-Tetrachloroethane		79-34-5	IRIS	5.8E-5	2.0E-1	C	3
Thioacetamide		62-55-5	RCHAS-E	1.7E-3	6.1E+1	NC	2B
2,4-Toluene diisocyanate		584-84-9	RCHAS-E	1.1E-5	3.9E-2	NC	2B
2,6-Toluene diisocyanate		91-08-7	RCHAS-E	1.1E-5	3.9E-2	NC	2B
1,1,2-Trichloroethane(vinyltrichloride)		79-00-5	IRIS	1.6E-5	5.7E-2	C	3
Trichloroethylene	(inhalation)	79-01-6	TAC	2.0E-6	1.0E-2	NC	2A
	(oral)		RCHAS-S		1.5E-2		
2,4,6-Trichlorophenol		88-06-2	RCHAS-S	2.0E-5	7.0E-2	B2	2B
Urethane		51-79-6	RCHAS-S	2.9E-4	1.0E+0	NC	2B
Vinylchloride		75-01-4	TAC	7.8E-5	2.7E-1	NC	I

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* canbecalculatedusingPEFfactorscontainedinthebenzo[*a*]pyrene TACdocument
P1 Foruseincaseswherecongenerswithmorethanfourchlorinesdo notcompriselessthan one-halfpercentoftotalPCBs
P2 Foruseincaseswherecongenerswithmorethanfourchlorines compriselessthan one-halfpercentoftotalPCBs

SourceKey

TAC ToxicAirContaminantdocument,Officeof EnvironmentalHealthHazardAssessment (OEHHA)
RCHAS-S StandardProposition65document,OEHHA
IRIS IntegratedRiskInformationSystem,U.S. EnvironmentalProtectionAgency (USEPA)
RCHAS-E ExpeditedProposition65document, OEHHA
ATES AirToxicologyandEpidemiologySection document,OEHHA
PETS PesticideandEnvironmentalToxicology SectionPublicHealthGoaldocument, OEHHA