

Section 69021: Appendix I. California OEHHA Toxicity Criteria

Table A		Cancer Potency Values		Non-cancer Health-Hazard Values	
		Oral Slope Factor (CSF _o)	Inhalation Unit Risk (IUR)	Oral Reference Dose (RfD _o)	Chronic Reference Exposure Level (REL)
Analyte	CAS Registry Number	CSF _o (mg/kg-d) ⁻¹ Reference	IUR (μg/m ³) ⁻¹ Reference	RfD _o (mg/kg-d)Reference	REL (μg/m ³)Reference
<u>1</u> Acetaldehyde	<u>75-07-0</u>	-- --	<u>2.70E-06</u> OEHHA	-- --	-- --
<u>2</u> Ammonia	<u>7664-41-7</u>	-- --	-- --	-- --	<u>2.00E+02</u> OEHHA
<u>3</u> Arsenic	<u>7440-38-2</u>	<u>9.50E+00</u> OEHHA PHG	-- --	<u>3.50E-06</u> OEHHA	<u>1.50E-02</u> OEHHA
<u>4</u> Arsine	<u>7784-42-1</u>	-- --	-- --	<u>3.50E-06</u> OEHHA	<u>1.50E-02</u> OEHHA
<u>5</u> Benzene	<u>71-43-2</u>	<u>1.00E-01</u> OEHHA	<u>2.90E-05</u> OEHHA	-- --	<u>3.00E+00</u> OEHHA
<u>6</u> Benzidine	<u>92-87-5</u>	<u>5.00E+02</u> OEHHA	<u>1.40E-01</u> OEHHA	-- --	-- --
<u>7</u> Benzo[a]anthracene	<u>56-55-3</u>	-- --	<u>1.10E-04</u> OEHHA	-- --	-- --
<u>8</u> Benzo[a]pyrene	<u>50-32-8</u>	-- --	<u>1.10E-03</u> OEHHA	-- --	-- --
<u>9</u> Benzo[b]fluoranthene	<u>205-99-2</u>	-- --	<u>1.10E-04</u> OEHHA	-- --	-- --
<u>10</u> Benzo[k]fluoranthene	<u>207-08-9</u>	-- --	<u>1.10E-04</u> OEHHA	-- --	-- --
<u>11</u> Beryllium	<u>7440-41-7</u>	-- --	-- --	<u>2.00E-04</u> OEHHA PHG	<u>7.00E-03</u> OEHHA
<u>12</u> Beryllium oxide	<u>1304-56-9</u>	-- --	-- --	<u>2.00E-04</u> OEHHA PHG	<u>7.00E-03</u> OEHHA
<u>13</u> Beryllium sulfate	<u>13510-49-1</u>	-- --	-- --	<u>2.00E-04</u> OEHHA PHG	<u>7.00E-03</u> OEHHA
<u>14</u> Boron Trifluoride	<u>7/2/7637</u>	-- --	-- --	<u>4.00E-02</u> OEHHA (Fluorides)	-- --
<u>15</u> 1,3-Butadiene	<u>106-99-0</u>	<u>6.00E-01</u> OEHHA	<u>1.70E-04</u> OEHHA	-- --	<u>2.00E+00</u> OEHHA
<u>16</u> Cadmium	<u>7440-43-9</u>	-- --	<u>4.20E-03</u> OEHHA	-- --	-- --
<u>17</u> Carbon tetrachloride	<u>56-23-5</u>	-- --	-- --	-- --	<u>4.00E+01</u> OEHHA
<u>18</u> Carbonyl sulfide	<u>463-58-1</u>	-- --	-- --	-- --	<u>1.00E+01</u> OEHHA
<u>19</u> Chromium (VI)	<u>18540-29-9</u>	<u>5.00E-01</u> OEHHA PHG	<u>1.50E-01</u> OEHHA	-- --	-- --
<u>20</u> Chrysene	<u>218-01-9</u>	-- --	<u>1.10E-05</u> OEHHA	-- --	-- --
<u>21</u> Dibenz[a,h]anthracene	<u>53-70-3</u>	<u>4.10E+00</u> OEHHA	<u>1.20E-03</u> OEHHA	-- --	-- --
<u>22</u> 3,3'-Dichlorobenzidine	<u>91-94-1</u>	<u>1.20E+00</u> OEHHA	<u>3.40E-04</u> OEHHA	-- --	-- --
<u>23</u> 1,1-Dichloroethene	<u>75-35-4</u>	-- --	-- --	-- --	<u>7.00E+01</u> OEHHA
<u>24</u> Epichlorohydrin	<u>106-89-8</u>	<u>8.00E-02</u> OEHHA	<u>2.30E-05</u> OEHHA	-- --	-- -
<u>25</u> bis(2-Chloroethyl) ether	<u>111-44-4</u>	<u>2.50E+00</u> OEHHA	<u>7.10E-04</u> OEHHA	-- --	-- -
<u>26</u> Ethylene dibromide	<u>106-93-4</u>	-- --	-- --	-- --	<u>8.00E-01</u> -
<u>27</u> Formaldehyde	<u>50-00-0</u>	-- --	-- --	-- --	<u>9.00E+00</u> -
<u>28</u> HCH (mixed isomers)	<u>608-73-1</u>	<u>4.00E+00</u> OEHHA	<u>1.10E-03</u> OEHHA	-- --	-- -
<u>29</u> Hexachlorobenzene	<u>118-74-1</u>	<u>1.80E+00</u> OEHHA	<u>5.10E-04</u> OEHHA	-- --	-- -

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Analyte		CAS Registry Number	CSFo (mg/kg-d) ⁻¹ Reference	IUR (µg/m ³) ⁻¹ Reference	RfDo (mg/kg-d)Reference	REL (µg/m ³)Reference
30	Hexachlorodibenzo-p-dioxin Mixture (2:1 1,2,3,7,8,9- and 1,2,3,6,7,8-)	Hexachlorodibenzo-p-dioxin Mixture	-- --	3.80E+00 OEHHA (WHO-05 TEF)	-- --	-- -
31	Hydrochloric acid	7647-01-0	-- --	-- --	-- --	9.00E+00 -
32	Indeno[1,2,3-cd]pyrene	193-39-5	-- --	1.10E-04 OEHHA	-- --	-- -
33	Lead and compounds [#]	7439-92-1	-- --	-- --	See Table B OEHHA	-- -
34	Lead subacetate	1335-32-6	3.80E-02 OEHHA	1.10E-05 OEHHA	-- --	-- -
35	Mercuric Chloride	7487-94-7	-- --	-- --	1.60E-04 OEHHA REL	3.00E-02 -
36	Mercury	7439-97-6	-- --	-- --	1.60E-04 OEHHA REL	3.00E-02 -
37	Methylene Chloride	75-09-2	-- --	1.00E-06 OEHHA	-- --	4.00E+02 -
38	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	1.50E+00 OEHHA	-- --	-- --	-- -
39	Methylene diphenyl diisocyanate	101-68-8	-- --	-- --	-- --	8.00E-02 -
40	Polymeric methylenediphenyl diisocyanate	9016-87-9	-- --	-- --	-- --	8.00E-02 -
41	Nickel	7440-02-0	-- --	2.60E-04 OEHHA	1.10E-02 OEHHA	1.40E-02 -
42	Nickel Hydroxide	12054-48-7	-- --	2.60E-04 OEHHA	1.10E-02 OEHHA	1.40E-02 -
43	Nickel Oxide	1313-99-1	-- --	2.60E-04 OEHHA	1.10E-02 OEHHA	2.00E-02 -
44	Nickel refinery dust	Nickel refinery dust	-- --	2.60E-04 OEHHA	1.10E-02 OEHHA	1.40E-02 -
45	Nickel subsulfide	12035-72-2	-- --	-- --	1.10E-02 OEHHA	1.40E-02 -
46	N-Nitroso-di-n-butylamine	924-16-3	1.10E+01 OEHHA	3.10E-03 OEHHA	-- --	-- -
47	Styrene	100-42-5	-- --	-- --	-- --	9.00E+02 -
48	Tetrachloroethene	127-18-4	5.40E-01 OEHHA PHG	6.10E-06 OEHHA	-- --	-- -
49	Toluene	108-88-3	-- --	-- --	-- --	3.00E+02 -
50	Toluene 2,4/2,6-Diisocyanates	26471-62-5	3.90E-02 OEHHA	-- --	-- --	8.00E-03 -

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Analyte		CAS Registry Number	CSFo (mg/kg-d) ¹	Reference	IUR (µg/m³) ¹	Reference	RfDo (mg/kg-d)	Reference	REL (µg/m³)	Reference
51	Toluene-2,4-diisocyanate	584-84-9	3.90E-02	OEHHA (toluene diisocyanates)	--	--	--	--	8.00E-03	-
52	Toluene-2,6-diisocyanate	91-08-7	3.90E-02	OEHHA (toluene diisocyanates)	--	--	--	--	8.00E-03	-
53	Toxaphene	8001-35-2	1.20E+00	OEHHA	--	--	--	--	--	-
54	1,1,1-Trichloroethane	71-55-6	--	--	--	--	--	--	1.00E+03	-
55	2,4,6-Trichlorophenol	88-06-2	7.00E-02	OEHHA	2.00E-05	OEHHA	--	--	--	-
56	Vinyl chloride	75-01-4	--	--	7.80E-05	OEHHA	--	--	--	-

FOOTNOTES:

CAS = Chemical Abstracts Service

CSFo = oral cancer slope factor

IUR = inhalation unit risk factor

OEHHA = California Office of Environmental Health Hazard Assessment

PHG = Public Health Goal

RfD = chronic oral reference dose

REL = chronic reference exposure level

WHO-05 TEF = 2005 World Health Organization, Toxicity Equivalency Factor

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Table B Non-Cancer Health-Hazard Values

<u>Line</u> <u>#</u>	<u>Analyte</u>	<u>CAS Registry</u> <u>Number</u>	<u>Benchmark</u> <u>Incremental Change</u> <u>in Blood Lead</u> <u>(µg/dL)</u>	<u>Reference</u>
<u>1</u>	<u>Lead and compounds</u> [#]	<u>7439-92-1</u>	<u>1</u>	<u>OEHHA</u>

FOOTNOTES:

[#] The toxicity criterion for lead represents a benchmark incremental change in blood lead concentration. The units are in microgram per deciliter (µg/dL).

CAS = Chemical Abstracts Service

OEHHA = California Office of Environmental Health Hazard Assessment