

Table 2-5-1 Toxic Air Contaminant Trigger Levels

Chemical	CAS Number <sup>1</sup>	Acute (1-hr. max.) Trigger Level <sup>2,3</sup> (lb/hour)	Chronic Trigger Level <sup>2</sup> (lb/year)	CREL Weighting Factor <sup>9,10</sup>	CP Weighting Factor <sup>9,10</sup>	Acute Inhalation REL <sup>10</sup> (µg/m <sup>3</sup> )	Chronic Inhalation REL <sup>10</sup> (µg/m <sup>3</sup> )	Chronic Oral REL <sup>10</sup> (mg/kg-day)	Inhalation Cancer Potency Factor <sup>10</sup> (mg/kg-day) <sup>-1</sup>	Oral Cancer Potency Factor <sup>10</sup> (mg/kg-day) <sup>-1</sup>
Acetaldehyde	75-07-0	1.0E+00	<del>3.8E+01</del> <u>2.9E+01</u>	1.4E+02	1.0E-02	4.7E+02	1.4E+02 <del>3.0E+02</del> <u>(8-Hour)</u>		1.0E-02	
Acetamide	60-35-5		<del>5.4E+00</del> <u>4.1E+00</u>		7.0E-02				7.0E-02	
Acrolein	107-02-8	5.5E-03	1.4E+01	3.5E-01		2.5E+00	3.5E-01 <del>7.0E-01</del> <u>(8-Hour)</u>			
Acrylamide	79-06-1		<del>8.4E-02</del> <u>6.4E-02</u>		4.5E+00				4.5E+00	
Acrylic acid	79-10-7	1.3E+01				6.0E+03				
Acrylonitrile	107-13-1		<del>3.8E-01</del> <u>2.9E-01</u>	5.0E+00	1.0E+00		5.0E+00		1.0E+00	
Allyl chloride	107-05-1		<del>1.8E+01</del> <u>1.4E+01</u>		2.1E-02				2.1E-02	
Aminoanthraquinone, 2-	117-79-3		<del>1.1E+01</del> <u>8.7E+00</u>		3.3E-02				3.3E-02	
Ammonia	7664-41-7	7.1E+00	7.7E+03	2.0E+02		3.2E+03	2.0E+02			
Aniline	62-53-3		<del>6.6E+01</del> <u>5.0E+01</u>		5.7E-03				5.7E-03	

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Arsenic and compounds (inorganic) <sup>3,4</sup>	7440-38-2	4.4E-04	<del>7.2E-03</del> <u>1.6E-03</u>	<del>4.0E-04</del> <u>1.4E-04</u>	<del>5.4E+01</del> <u>1.8E+02</u>	2.0E-01	1.5E-02 <del>1.5E-02</del> <u>(8-Hour)</u>	3.5E-06	1.2E+01	1.5E+00
Arsine	7784-42-1	<del>4.4E-04</del> <u>4.6E-04</u>	<del>5.8E-01</del> <u>6.0E-01</u>	<del>4.0E-04</del> <u>1.4E-02</u>		2.0E-01	1.5E-02 <del>1.5E-02</del> <u>(8-Hour)</u>			
Asbestos <sup>5</sup>	1332-21-4		<del>1.7E-03</del> <u>1.3E-03</u>		2.2E+02				2.2E+02	
Benzene <sup>3</sup>	71-43-2	<del>2.9E+00</del> <u>6.0E-02</u>	<del>3.8E+00</del> <u>2.9E+00</u>	<del>6.0E+01</del> <u>3.0E+00</u>	1.0E-01	<del>1.3E+03</del> <u>2.7E+01</u>	<del>6.0E+01</del> <u>3.0E+00</u> <del>3.0E+00</del> <u>(8-Hour)</u>		1.0E-01	
Benzidine (and its salts)	92-87-5		<del>7.6E-04</del> <u>5.7E-04</u>		5.0E+02				5.0E+02	
<i>benzidine based dyes</i>			<del>7.6E-04</del> <u>5.7E-04</u>		5.0E+02				5.0E+02	
direct black 38	1937-37-7		<del>7.6E-04</del> <u>5.7E-04</u>		5.0E+02				5.0E+02	
direct blue 6	2602-46-2		<del>7.6E-04</del> <u>5.7E-04</u>		5.0E+02				5.0E+02	
direct brown 95 (technical grade)	16071-86-6		<del>7.6E-04</del> <u>5.7E-04</u>		5.0E+02				5.0E+02	

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Benzyl chloride	100-44-7	5.3E-01	<del>2.2E+00</del> <del>1.7E+00</del>		1.7E-01	2.4E+02			1.7E-01	
Beryllium and compounds <sup>4</sup>	7440-41-7		<del>4.7E-02</del> <del>3.4E-02</del>	7.0E-03	8.4E+00		7.0E-03	2.0E-03	8.4E+00	
Bis (2-chloroethyl) ether (Dichloroethyl ether)	111-44-4		<del>1.5E-01</del> <del>1.1E-01</del>		2.5E+00				2.5E+00	
Bis (chloromethyl) ether	542-88-1		<del>8.2E-03</del> <del>6.2E-03</del>		4.6E+01				4.6E+01	
Butadiene, 1,3-	106-99-0	<u>1.5E+00</u>	<del>6.3E-01</del> <del>4.8E-01</del>	<del>2.0E+01</del> <del>2.0E+00</del>	6.0E-01	<u>6.6E+02</u>	<del>2.0E+01</del> <del>2.0E+00</del>		6.0E-01	
							<u>9.0E+00</u> (8-Hour)			
Cadmium and compounds <sup>4</sup>	7440-43-9		<del>2.6E-02</del> <del>1.9E-02</del>	<del>1.8E-02</del> <del>1.0E-02</del>	1.5E+01		2.0E-02	5.0E-04	1.5E+01	
<u>Caprolactam</u>	<u>105-60-2</u>	<u>1.1E-01</u>	<u>8.5E+01</u>	<u>2.2E+00</u>		<u>5.0E+01</u>	<del>2.2E+00</del> <del>7.0E+00</del> (8-Hour)			
Carbon disulfide <sup>3</sup>	75-15-0	1.4E+01	3.1E+04	8.0E+02		6.2E+03	8.0E+02			
Carbon tetrachloride <sup>3</sup> (Tetrachloromethane)	56-23-5	4.2E+00	<del>2.5E+00</del> <del>1.9E+00</del>	4.0E+01	1.5E-01	1.9E+03	4.0E+01		1.5E-01	
Chlorinated paraffins	108171-26-2		<del>4.2E+00</del> <del>3.2E+00</del>		8.9E-02				8.9E-02	

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Chlorine	7782-50-5	4.6E-01	7.7E+00	2.0E-01		2.1E+02	2.0E-01			
Chlorine dioxide	10049-04-4		2.3E+01	6.0E-01			6.0E-01			
Chloro-o-phenylenediamine, 4-	95-83-0		<u>2.4E+01</u> <u>1.8E+01</u>		1.6E-02				1.6E-02	
Chlorobenzene	108-90-7		3.9E+04	1.0E+03			1.0E+03			
Chloroform <sup>3</sup>	67-66-3	3.3E-01	<u>2.0E+01</u> <u>1.5E+01</u>	3.0E+02	1.9E-02	1.5E+02	3.0E+02		1.9E-02	
Chloropicrin	76-06-2	6.4E-02	1.5E+01	4.0E-01		2.9E+01	4.0E-01			
Chloro-o-toluidine, p-	95-69-2		<u>1.4E+00</u> <u>1.1E+00</u>		2.7E-01				2.7E-01	
Chromium, (hexavalent, 6+) <sup>4</sup>	18540-29-9		<u>7.7E-04</u> <u>5.1E-04</u>	2.0E-01	<u>5.1E+02</u> <u>5.6E+02</u>		2.0E-01	2.0E-02	5.1E+02	<u>5.0E-01</u>
barium chromate <sup>4</sup>	10294-40-3		<u>7.7E-04</u> <u>2.5E-03</u>	<u>2.0E-01</u> <u>4.1E-02</u>	<u>5.1E+02</u> <u>1.2E+02</u>		2.0E-01	2.0E-02	5.1E+02	<u>5.0E-01</u>
calcium chromate <sup>4</sup>	13765-19-0		<u>7.7E-04</u> <u>1.5E-03</u>	<u>2.0E-01</u> <u>6.7E-02</u>	<u>5.1E+02</u> <u>1.9E+02</u>		2.0E-01	2.0E-02	5.1E+02	<u>5.0E-01</u>
lead chromate <sup>4</sup>	7758-97-6		<u>7.7E-04</u> <u>3.2E-03</u>	<u>2.0E-01</u> <u>3.2E-02</u>	<u>5.1E+02</u> <u>9.1E+01</u>		2.0E-01	2.0E-02	5.1E+02	<u>5.0E-01</u>
sodium dichromate <sup>4</sup>	10588-01-9		<u>7.7E-04</u> <u>1.3E-03</u>	<u>2.0E-01</u> <u>7.9E-02</u>	<u>5.1E+02</u> <u>2.2E+02</u>		2.0E-01	2.0E-02	5.1E+02	<u>5.0E-01</u>
strontium chromate <sup>4</sup>	7789-06-2		<u>7.7E-04</u> <u>2.0E-03</u>	<u>2.0E-01</u> <u>5.1E-02</u>	<u>5.1E+02</u> <u>1.4E+02</u>		2.0E-01	2.0E-02	5.1E+02	<u>5.0E-01</u>

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Chromium trioxide (as chromic acid mist) <sup>4</sup>	1333-82-0		<del>7.7E-04</del> <del>9.7E-04</del>	<del>2.0E-03</del> <del>1.0E-03</del>	<del>5.1E+02</del> <del>2.9E+02</del>		2.0E-03	2.0E-02	5.1E+02	<del>5.0E-01</del>
Copper and compounds	7440-50-8	2.2E-01				1.0E+02				
Cresidine, p-	120-71-8		<del>2.5E+00</del> <del>1.9E+00</del>		1.5E-01				1.5E-01	
Cresols (m-, o-, p-)	1319-77-3		2.3E+04	6.0E+02			6.0E+02			
Cupferron	135-20-6		<del>1.7E+00</del> <del>1.3E+00</del>		2.2E-01				2.2E-01	
Cyanide and compounds (inorganic)	57-12-5	7.5E-01	3.5E+02	9.0E+00		3.4E+02	9.0E+00			
hydrogen cyanide (hydrocyanic acid)	74-90-8	7.5E-01	3.5E+02	9.0E+00		3.4E+02	9.0E+00			
Diaminoanisole, 2,4-	615-05-4		<del>1.6E+01</del> <del>1.2E+01</del>		2.3E-02				2.3E-02	
Diaminotoluene, 2,4-	95-80-7		<del>9.5E-02</del> <del>7.2E-02</del>		4.0E+00				4.0E+00	
Dibromo-3-chloropropane, 1,2- (DBCP)	96-12-8		<del>5.4E-02</del> <del>4.1E-02</del>		7.0E+00				7.0E+00	
Dichlorobenzene, 1,4-	106-46-7		<del>9.5E+00</del> <del>7.2E+00</del>	8.0E+02	4.0E-02		8.0E+02		4.0E-02	
Dichlorobenzidine, 3,3-	91-94-1		<del>3.2E-01</del> <del>2.4E-01</del>		1.2E+00				1.2E+00	

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Dichloroethane, 1,1- (Ethylidene dichloride)	75-34-3		<del>6.6E+01</del> <u>5.0E+01</u>		5.7E-03				5.7E-03	
Dichloroethylene, 1,1- [see vinylidene chloride]										
Diesel exhaust particulate matter <sup>6</sup>			<del>3.4E-01</del> <u>2.6E-01</u>	5.0E+00	1.1E+00		5.0E+00		1.1E+00	
Diethanolamine	111-42-2		1.2E+02	3.0E+00			3.0E+00			
Di(2-ethylhexyl)phthalate (DEHP) <sup>4</sup>	117-81-7		<del>4.1E+01</del> <u>2.9E+01</u>		<del>9.3E-03</del> <u>1.0E-02</u>				8.4E-03	8.4E-03
Dimethylaminoazobenzene, p-	60-11-7		<del>8.2E-02</del> <u>6.2E-02</u>		4.6E+00				4.6E+00	
Dimethyl formamide, N,N-	68-12-2		3.1E+03	8.0E+01			8.0E+01			
Dinitrotoluene, 2,4-	121-14-2		<del>1.2E+00</del> <u>9.2E-01</u>		3.1E-01				3.1E-01	
Dioxane, 1,4- (1,4-diethylene dioxide)	123-91-1	6.6E+00	<del>1.4E+01</del> <u>1.1E+01</u>	3.0E+03	2.7E-02	3.0E+03	3.0E+03		2.7E-02	
Epichlorohydrin (1-chloro-2,3-epoxypropane)	106-89-8	2.9E+00	<del>4.7E+00</del> <u>3.6E+00</u>	3.0E+00	8.0E-02	1.3E+03	3.0E+00		8.0E-02	
Epoxybutane, 1,2-	106-88-7		7.7E+02	2.0E+01			2.0E+01			
Ethyl benzene	100-41-4		<del>4.3E+01</del> <u>3.3E+01</u>	2.0E+03	8.7E-03		2.0E+03		8.7E-03	
Ethyl chloride (chloroethane)	75-00-3		1.2E+06	3.0E+04			3.0E+04			

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Ethylene dibromide (1,2-dibromoethane)	106-93-4		<del>1.5E+00</del> <u>1.1E+00</u>	8.0E-01	2.5E-01		8.0E-01		2.5E-01	
Ethylene dichloride (1,2-dichloroethane)	107-06-2		<del>5.3E+00</del> <u>4.0E+00</u>	4.0E+02	7.2E-02		4.0E+02		7.2E-02	
Ethylene glycol	107-21-1		1.5E+04	4.0E+02			4.0E+02			
Ethylene glycol butyl ether – EGBE [see Glycol ethers]										
Ethylene oxide (1,2-epoxyethane)	75-21-8		<del>1.2E+00</del> <u>9.2E-01</u>	3.0E+01	3.1E-01		3.0E+01		3.1E-01	
Ethylene thiourea	96-45-7		<del>8.4E+00</del> <u>6.4E+00</u>		4.5E-02				4.5E-02	
Fluorides <sup>4</sup>		5.3E-01	<del>5.0E+02</del> <u>5.7E+01</u>	<del>1.3E+01</del> <u>1.5E+00</u>		2.4E+02	1.3E+01	4.0E-02		
hydrogen fluoride (hydrofluoric acid) <sup>4</sup>	7664-39-3	5.3E-01	<del>5.4E+02</del> <u>5.8E+01</u>	<del>1.4E+01</del> <u>1.5E+00</u>		2.4E+02	1.4E+01	4.0E-02		
Formaldehyde	50-00-0	1.2E-01	<del>1.8E+01</del> <u>1.4E+01</u>	9.0E+00	2.1E-02	5.5E+01	9.0E+00 <u>9.0E+00 (8-Hour)</u>		2.1E-02	
Glutaraldehyde	111-30-8		3.1E+00	8.0E-02			8.0E-02			

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Glycol ethers										
ethylene glycol butyl ether – EGBE (2-butoxy ethanol; butyl cellosolve)	111-76-2	3.1E+01				1.4E+04				
ethylene glycol ethyl ether – EGEE (2-ethoxy ethanol; cellosolve) <sup>3</sup>	110-80-5	8.2E-01	2.7E+03	7.0E+01		3.7E+02	7.0E+01			
ethylene glycol ethyl ether acetate – EGEEA (2-ethoxyethyl acetate; cellosolve acetate) <sup>3</sup>	111-15-9	3.1E-01	1.2E+04	3.0E+02		1.4E+02	3.0E+02			
ethylene glycol methyl ether – EGME (2-methoxy ethanol; methyl cellosolve) <sup>3</sup>	109-86-4	2.1E-01	2.3E+03	6.0E+01		9.3E+01	6.0E+01			
ethylene glycol methyl ether acetate – EGMEA (2-methoxyethyl acetate; methyl cellosolve acetate)	110-49-6		3.5E+03	9.0E+01			9.0E+01			
Hexachlorobenzene	118-74-1		<del>2.1E-01</del> <u>1.6E-01</u>		1.8E+00				1.8E+00	
Hexachlorocyclohexanes (mixed or technical grade) <sup>4</sup>	608-73-1		<del>6.9E-02</del> <u>3.3E-02</u>		<del>5.7E+00</del> <u>8.6E+00</u>				4.0E+00	4.0E+00



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Chemical	CAS Number <sup>1</sup>	Acute (1-hr. max.) Trigger Level <sup>2,3</sup> (lb/hour)	Chronic Trigger Level <sup>2</sup> (lb/year)	CREL Weighting Factor <sup>9,10</sup>	CP Weighting Factor <sup>9,10</sup>	Acute Inhalation REL <sup>10</sup> (µg/m <sup>3</sup> )	Chronic Inhalation REL <sup>10</sup> (µg/m <sup>3</sup> )	Chronic Oral REL <sup>10</sup> (mg/kg-day)	Inhalation Cancer Potency Factor <sup>10</sup> (mg/kg-day) <sup>-1</sup>	Oral Cancer Potency Factor <sup>10</sup> (mg/kg-day) <sup>-1</sup>
Hexachlorocyclohexane, alpha- <sup>4</sup>	319-84-6		<u>6.9E-02</u> <u>3.3E-02</u>		<u>5.7E+00</u> <u>8.6E+00</u>				4.0E+00	4.0E+00
Hexachlorocyclohexane, beta- <sup>4</sup>	319-85-7		<u>6.9E-02</u> <u>3.3E-02</u>		<u>5.7E+00</u> <u>8.6E+00</u>				4.0E+00	4.0E+00
Hexachlorocyclohexane, gamma- (lindane) <sup>4</sup>	58-89-9		<u>2.5E-01</u> <u>1.2E-01</u>		<u>1.6E+00</u> <u>2.4E+00</u>				1.1E+00	1.1E+00
Hexane, n-	110-54-3		2.7E+05	7.0E+03			7.0E+03			
Hydrazine	302-01-2		<u>2.2E-02</u> <u>1.7E-02</u>	2.0E-01	1.7E+01		2.0E-01		1.7E+01	
Hydrochloric acid (hydrogen chloride)	7647-01-0	4.6E+00	3.5E+02	9.0E+00		2.1E+03	9.0E+00			
Hydrogen cyanide (hydrocyanic acid) [see cyanide & compounds]										
Hydrogen fluoride (hydrofluoric acid) [see fluorides & compounds]										
Hydrogen selenide [see selenium compounds]										
Hydrogen sulfide	7783-06-4	9.3E-02	3.9E+02	1.0E+01		4.2E+01	1.0E+01			
Isophorone	78-59-1		7.7E+04	2.0E+03			2.0E+03			
Isopropyl alcohol (isopropanol)	67-63-0	7.1E+00	2.7E+05	7.0E+03		3.2E+03	7.0E+03			

Table 2-5-1 Toxic Air Contaminant Trigger Levels

Chemical	CAS Number <sup>1</sup>	Acute (1-hr. max.) Trigger Level <sup>2,3</sup> (lb/hour)	Chronic Trigger Level <sup>2</sup> (lb/year)	CREL Weighting Factor <sup>9,10</sup>	CP Weighting Factor <sup>9,10</sup>	Acute Inhalation REL <sup>10</sup> (µg/m <sup>3</sup> )	Chronic Inhalation REL <sup>10</sup> (µg/m <sup>3</sup> )	Chronic Oral REL <sup>10</sup> (mg/kg-day)	Inhalation Cancer Potency Factor <sup>10</sup> (mg/kg-day) <sup>-1</sup>	Oral Cancer Potency Factor <sup>10</sup> (mg/kg-day) <sup>-1</sup>
Lead and compounds (inorganic) <sup>4</sup>	7439-92-1		<u>3.2E+00</u> <u>2.9E-01</u>						4.2E-02	8.5E-03
lead acetate <sup>4</sup>	301-04-2		<u>3.2E+00</u> <u>4.6E-01</u>						4.2E-02	8.5E-03
lead phosphate <sup>4</sup>	7446-27-7		<u>3.2E+00</u> <u>3.8E-01</u>						4.2E-02	8.5E-03
lead subacetate <sup>4</sup>	1335-32-6		<u>3.2E+00</u> <u>3.8E-01</u>						4.2E-02	8.5E-03
Lindane [see hexachlorocyclohexane, gamma]										
Maleic anhydride	108-31-6		2.7E+01	7.0E-01			7.0E-01			
Manganese and compounds	7439-96-5		3.5E+00	9.0E-02			9.0E-02 <u>1.7E-01</u> (8-Hour)			
Mercury and compounds (inorganic) <sup>4</sup>	7439-97-6	1.3E-03	<u>2.7E-01</u> <u>2.1E-01</u>	<u>7.1E-03</u> <u>5.4E-03</u>		6.0E-01	3.0E-02 <u>6.0E-02</u> (8-Hour)	1.6E-04		
mercuric chloride <sup>4</sup>	7487-94-7	<u>1.3E-03</u> <u>1.8E-03</u>	<u>2.7E-01</u> <u>2.8E-01</u>	<u>7.1E-03</u> <u>4.0E-03</u>		6.0E-01	3.0E-02 <u>6.0E-02</u> (8-Hour)	1.6E-04		
Methanol (methyl alcohol)	67-56-1	6.2E+01	1.5E+05	4.0E+03		2.8E+04	4.0E+03			

Table 2-5-1 Toxic Air Contaminant Trigger Levels

Chemical	CAS Number <sup>1</sup>	Acute (1-hr. max.) Trigger Level <sup>2,3</sup> (lb/hour)	Chronic Trigger Level <sup>2</sup> (lb/year)	CREL Weighting Factor <sup>9,10</sup>	CP Weighting Factor <sup>9,10</sup>	Acute Inhalation REL <sup>10</sup> ( $\mu\text{g}/\text{m}^3$ )	Chronic Inhalation REL <sup>10</sup> ( $\mu\text{g}/\text{m}^3$ )	Chronic Oral REL <sup>10</sup> (mg/kg-day)	Inhalation Cancer Potency Factor <sup>10</sup> (mg/kg-day) <sup>-1</sup>	Oral Cancer Potency Factor <sup>10</sup> (mg/kg-day) <sup>-1</sup>
Methyl bromide (bromomethane)	74-83-9	8.6E+00	1.9E+02	5.0E+00		3.9E+03	5.0E+00			
Methyl chloroform (1,1,1-trichloroethane)	71-55-6	1.5E+02	3.9E+04	1.0E+03		6.8E+04	1.0E+03			
Methyl ethyl ketone (MEK) (2-butanone)	78-93-3	2.9E+01				1.3E+04				
Methyl isocyanate	624-83-9		3.9E+01	1.0E+00			1.0E+00			
Methyl tertiary-butyl ether (MTBE)	1634-04-4		<del>2.1E+02</del> <u>1.6E+02</u>	8.0E+03	1.8E-03		8.0E+03		1.8E-03	
Methylene bis (2-chloroaniline), 4,4'- (MOCA)	101-14-4		<del>2.5E-01</del> <u>1.9E-01</u>		1.5E+00				1.5E+00	
Methylene chloride (dichloromethane)	75-09-2	3.1E+01	<del>1.1E+02</del> <u>8.2E+01</u>	4.0E+02	3.5E-03	1.4E+04	4.0E+02		3.5E-03	
Methylene dianiline, 4,4'- (and its dichloride) <sup>4</sup>	101-77-9		<del>2.4E-01</del> <u>2.6E-02</u>	2.0E+01	<del>1.6E+00</del> <u>1.1E+01</u>		2.0E+01		1.6E+00	1.6E+00
Methylene diphenyl isocyanate	101-68-8		2.7E+01	7.0E-01			7.0E-01			
Michler's ketone (4,4 bis (dimethylamino) benzophenone)	90-94-8		<del>4.4E-01</del> <u>3.3E-01</u>		8.6E-01				8.6E-01	
Naphthalene [see polycyclic aromatic hydrocarbons]										

Table 2-5-1 Toxic Air Contaminant Trigger Levels

Chemical	CAS Number <sup>1</sup>	Acute (1-hr. max.) Trigger Level <sup>2,3</sup> (lb/hour)	Chronic Trigger Level <sup>2</sup> (lb/year)	CREL Weighting Factor <sup>9,10</sup>	CP Weighting Factor <sup>9,10</sup>	Acute Inhalation REL <sup>10</sup> ( $\mu\text{g}/\text{m}^3$ )	Chronic Inhalation REL <sup>10</sup> ( $\mu\text{g}/\text{m}^3$ )	Chronic Oral REL <sup>10</sup> (mg/kg-day)	Inhalation Cancer Potency Factor <sup>10</sup> (mg/kg-day) <sup>-1</sup>	Oral Cancer Potency Factor <sup>10</sup> (mg/kg-day) <sup>-1</sup>
Nickel and compounds <sup>4</sup> (values also apply to:)	7440-02-0	<u>1.3E-02</u> <u>3.1E-05</u>	<u>4.3E-01</u> <u>3.1E-01</u>	<u>5.0E-02</u> <u>1.4E-02</u>	9.1E-01	<u>6.0E+00</u> <u>2.0E-01</u>	<u>5.0E-02</u> <u>1.4E-02</u> <u>6.0E-02</u> (8-Hour)	<u>5.0E-02</u> <u>1.1E-02</u>	9.1E-01	
nickel acetate <sup>4</sup>	373-02-4	<u>1.3E-02</u> <u>9.3E-05</u>	<u>4.3E-01</u> <u>9.5E-01</u>	<u>5.0E-02</u> <u>4.7E-03</u>	9.1E-01	<u>6.0E+00</u> <u>2.0E-01</u>	<u>5.0E-02</u> <u>1.4E-02</u> <u>6.0E-02</u> (8-Hour)	<u>5.0E-02</u> <u>1.1E-02</u>	9.1E-01	
nickel carbonate <sup>4</sup>	3333-39-3	<u>1.3E-02</u> <u>6.3E-05</u>	<u>4.3E-01</u> <u>6.4E-01</u>	<u>5.0E-02</u> <u>6.9E-03</u>	9.1E-01	<u>6.0E+00</u> <u>2.0E-01</u>	<u>5.0E-02</u> <u>1.4E-02</u> <u>6.0E-02</u> (8-Hour)	<u>5.0E-02</u> <u>1.1E-02</u>	9.1E-01	
nickel carbonyl <sup>4</sup>	13463-39-3	<u>1.3E-02</u> <u>9.0E-05</u>	<u>4.3E-01</u> <u>9.1E-01</u>	<u>5.0E-02</u> <u>4.8E-03</u>	9.1E-01	<u>6.0E+00</u> <u>2.0E-01</u>	<u>5.0E-02</u> <u>1.4E-02</u> <u>6.0E-02</u> (8-Hour)	<u>5.0E-02</u> <u>1.1E-02</u>	9.1E-01	
nickel hydroxide <sup>4</sup>	12054-48-7	<u>1.3E-02</u> <u>4.9E-05</u>	<u>4.3E-01</u> <u>5.0E-01</u>	<u>5.0E-02</u> <u>8.9E-03</u>	9.1E-01	<u>6.0E+00</u> <u>2.0E-01</u>	<u>5.0E-02</u> <u>1.4E-02</u> <u>6.0E-02</u> (8-Hour)	<u>5.0E-02</u> <u>1.1E-02</u>	9.1E-01	

Table 2-5-1 Toxic Air Contaminant Trigger Levels

Chemical	CAS Number <sup>1</sup>	Acute (1-hr. max.) Trigger Level <sup>2,3</sup> (lb/hour)	Chronic Trigger Level <sup>2</sup> (lb/year)	CREL Weighting Factor <sup>9,10</sup>	CP Weighting Factor <sup>9,10</sup>	Acute Inhalation REL <sup>10</sup> (µg/m <sup>3</sup> )	Chronic Inhalation REL <sup>10</sup> (µg/m <sup>3</sup> )	Chronic Oral REL <sup>10</sup> (mg/kg-day)	Inhalation Cancer Potency Factor <sup>10</sup> (mg/kg-day) <sup>-1</sup>	Oral Cancer Potency Factor <sup>10</sup> (mg/kg-day) <sup>-1</sup>
nickelocene <sup>4</sup>	1271-28-9	<del>1.3E-02</del> 6.3E-05	<del>4.3E-01</del> 6.4E-01	<del>5.0E-02</del> 6.9E-03	9.1E-01	<del>6.0E+00</del> 2.0E-01	<del>5.0E-02</del> 1.4E-02 6.0E-02 (8-Hour)	<del>5.0E-02</del> 1.1E-02	9.1E-01	
nickel oxide <sup>4</sup>	1313-99-1	<del>1.3E-02</del> 5.6E-05	<del>4.3E-01</del> 4.0E-01	<del>1.0E-01</del> 7.9E-02	9.1E-01	<del>6.0E+00</del> 2.0E-01	<del>1.0E-01</del> 1.4E-02 6.0E-02 (8-Hour)	<del>5.0E-02</del> 1.1E-02	9.1E-01	
nickel refinery dust from the pyrometallurgical process <sup>4</sup>		<del>1.3E-02</del> 3.1E-05	<del>4.3E-01</del> 3.1E-01	<del>5.0E-02</del> 1.4E-02	9.1E-01	<del>6.0E+00</del> 2.0E-01	<del>5.0E-02</del> 1.4E-02 6.0E-02 (8-Hour)	<del>5.0E-02</del> 1.1E-02	9.1E-01	
nickel subsulfide <sup>4</sup>	12035-72-2	<del>1.3E-02</del> 1.3E-04	<del>4.3E-01</del> 1.3E+00	<del>5.0E-02</del> 3.4E-03	9.1E-01	<del>6.0E+00</del> 2.0E-01	<del>5.0E-02</del> 1.4E-02 6.0E-02 (8-Hour)	<del>5.0E-02</del> 1.1E-02	9.1E-01	
Nitric acid	7697-37-2	1.9E-01				8.6E+01				
Nitrosodi-n-butylamine, N-	924-16-3		<del>3.4E-02</del> 2.6E-02		1.1E+01				1.1E+01	
Nitrosodi-n-propylamine, N-	621-64-7		<del>5.4E-02</del> 4.1E-02		7.0E+00				7.0E+00	
Nitrosodiethylamine, N-	55-18-5		<del>1.1E-02</del> 8.0E-03		3.6E+01				3.6E+01	

**Table 2-5-1 Toxic Air Contaminant Trigger Levels**

Chemical	CAS Number <sup>1</sup>	Acute (1-hr. max.) Trigger Level <sup>2,3</sup> (lb/hour)	Chronic Trigger Level <sup>2</sup> (lb/year)	CREL Weighting Factor <sup>9,10</sup>	CP Weighting Factor <sup>9,10</sup>	Acute Inhalation REL <sup>10</sup> ( $\mu\text{g}/\text{m}^3$ )	Chronic Inhalation REL <sup>10</sup> ( $\mu\text{g}/\text{m}^3$ )	Chronic Oral REL <sup>10</sup> (mg/kg-day)	Inhalation Cancer Potency Factor <sup>10</sup> (mg/kg-day) <sup>-1</sup>	Oral Cancer Potency Factor <sup>10</sup> (mg/kg-day) <sup>-1</sup>
Nitrosodimethylamine, N-	62-75-9		<del>2.4E-02</del> <del>1.8E-02</del>		1.6E+01				1.6E+01	
Nitrosodiphenylamine, N-	86-30-6		<del>4.2E+01</del> <del>3.2E+01</del>		9.0E-03				9.0E-03	
Nitroso-n-methylethylamine, N-	10595-95-6		<del>1.7E-02</del> <del>1.3E-02</del>		2.2E+01				2.2E+01	
Nitrosomorpholine, N-	59-89-2		<del>5.6E-02</del> <del>4.3E-02</del>		6.7E+00				6.7E+00	
Nitrosopiperidine, N-	100-75-4		<del>4.0E-02</del> <del>3.0E-02</del>		9.4E+00				9.4E+00	
Nitrosopyrrolidine, N-	930-55-2		<del>1.8E-01</del> <del>1.4E-01</del>		2.1E+00				2.1E+00	
Nitrosodiphenylamine, p-	156-10-5		<del>1.7E+01</del> <del>1.3E+01</del>		2.2E-02				2.2E-02	
Ozone	10028-15-6	4.0E-01				1.8E+02				
Pentachlorophenol	87-86-5		<del>2.1E+01</del> <del>1.6E+01</del>		1.8E-02				1.8E-02	
Perchloroethylene (tetrachloroethylene)	127-18-4	4.4E+01	<del>1.8E+01</del> <del>1.4E+01</del>	3.5E+01	2.1E-02	2.0E+04	3.5E+01		2.1E-02	
Phenol	108-95-2	1.3E+01	7.7E+03	2.0E+02		5.8E+03	2.0E+02			
Phosgene	75-44-5	8.8E-03				4.0E+00				
Phosphine	7803-51-2		3.1E+01	8.0E-01			8.0E-01			

Table 2-5-1 Toxic Air Contaminant Trigger Levels

Chemical	CAS Number <sup>1</sup>	Acute (1-hr. max.) Trigger Level <sup>2,3</sup> (lb/hour)	Chronic Trigger Level <sup>2</sup> (lb/year)	CREL Weighting Factor <sup>9,10</sup>	CP Weighting Factor <sup>9,10</sup>	Acute Inhalation REL <sup>10</sup> ( $\mu\text{g}/\text{m}^3$ )	Chronic Inhalation REL <sup>10</sup> ( $\mu\text{g}/\text{m}^3$ )	Chronic Oral REL <sup>10</sup> (mg/kg-day)	Inhalation Cancer Potency Factor <sup>10</sup> (mg/kg-day) <sup>-1</sup>	Oral Cancer Potency Factor <sup>10</sup> (mg/kg-day) <sup>-1</sup>
Phosphoric acid	7664-38-2		2.7E+02	7.0E+00			7.0E+00			
Phthalic anhydride	85-44-9		7.7E+02	2.0E+01			2.0E+01			
<del>PCBs (polychlorinated biphenyls) [low risk]</del> <sup>4,7</sup>	<del>1336-36-3</del>		<del>4.7E-01</del>					<del>2.0E-05</del>	<del>7.0E-02</del>	<del>7.0E-02</del>
PCBs (polychlorinated biphenyls) [high risk] <sup>4,7,1</sup>	1336-36-3		<del>1.7E-02</del> <del>3.9E-03</del>		<del>2.7E+01</del> <del>7.4E+01</del>			<del>2.0E-05</del>	2.0E+00	2.0E+00
Polychlorinated dibenzo-p-dioxins (PCDDs), polychlorinated dibenzofurans (PCDFs), and dioxin-like polychlorinated biphenyls (PCBs) (as 2,3,7,8-PCDD equivalent) <sup>4,7,8</sup>	See Footnote 87		<del>3.4E-07</del> <del>4.4E-08</del>	<del>3.8E-06</del> <del>7.6E-08</del>	<del>1.3E+06</del> <del>6.5E+06</del>		4.0E-05	1.0E-08	1.3E+05	1.3E+05
Polycyclic aromatic hydrocarbons (PAH) (as B(a)P-equivalent) <sup>4,8,9</sup>	See Footnote 98		<del>6.9E-03</del> <del>3.3E-03</del>		<del>6.4E+01</del> <del>8.6E+01</del>				3.9E+00	1.2E+01
Naphthalene	91-20-3		<del>3.2E+00</del> <del>2.4E+00</del>	9.0E+00	1.2E-01		9.0E+00		1.2E-01	
Potassium bromate	7758-01-2		<del>7.7E-1</del> <del>5.8E-01</del>	1.7E+00	4.9E-01		1.7E+00		4.9E-01	
Propane sultone, 1,3-	1120-71-4		<del>1.6E-01</del> <del>1.2E-01</del>		2.4E+00				2.4E+00	
Propylene (propene)	115-07-1		1.2E+05	3.0E+03			3.0E+03			

**Table 2-5-1 Toxic Air Contaminant Trigger Levels**

Chemical	CAS Number <sup>1</sup>	Acute (1-hr. max.) Trigger Level <sup>2,3</sup> (lb/hour)	Chronic Trigger Level <sup>2</sup> (lb/year)	CREL Weighting Factor <sup>9,10</sup>	CP Weighting Factor <sup>9,10</sup>	Acute Inhalation REL <sup>10</sup> ( $\mu\text{g}/\text{m}^3$ )	Chronic Inhalation REL <sup>10</sup> ( $\mu\text{g}/\text{m}^3$ )	Chronic Oral REL <sup>10</sup> (mg/kg-day)	Inhalation Cancer Potency Factor <sup>10</sup> (mg/kg-day) <sup>-1</sup>	Oral Cancer Potency Factor <sup>10</sup> (mg/kg-day) <sup>-1</sup>
Propylene glycol monomethyl ether	107-98-2		2.7E+05	7.0E+03			7.0E+03			
Propylene oxide	75-56-9	6.8E+00	<del>2.9E+01</del> <del>2.2E+01</del>	3.0E+01	1.3E-02	3.1E+03	3.0E+01		1.3E-02	
Selenium and compounds <sup>4</sup>	7782-49-2		<del>7.7E+02</del> <del>8.0E+00</del>	<del>2.0E+01</del> <del>2.10E-01</del>			2.0E+01	<del>5.0E-03</del>		
hydrogen selenide	7783-07-5	1.1E-02				5.0E+00				
selenium sulfide <sup>4</sup>	7446-34-6		<del>7.7E+02</del> <del>1.5E+01</del>	<del>2.0E+01</del> <del>1.1E-01</del>			2.0E+01	<del>5.0E-03</del>		
Silica (crystalline, respirable)	7631-86-9		1.2E+02	3.0E+00			3.0E+00			
Sodium hydroxide	1310-73-2	1.8E-02				8.0E+00				
Styrene	100-42-5	4.6E+01	3.5E+04	9.0E+02		2.1E+04	9.0E+02			
Sulfates		2.6E-01				1.2E+02				
Sulfuric acid and oleum	7664-93-9	2.6E-01	3.9E+01	1.0E+00		1.2E+02	1.0E+00			
<i>Sulfuric acid</i>	7664-93-9	2.6E-01	3.9E+01	1.0E+00		1.2E+02	1.0E+00			
sulfur trioxide	7446-11-9	2.6E-01	3.9E+01	1.0E+00		1.2E+02	1.0E+00			
Oleum	8014-95-7	2.6E-01	3.9E+01	1.0E+00		1.2E+02	1.0E+00			
Tetrachloroethane, 1,1,2,2-	79-34-5		<del>1.9E+00</del> <del>1.4E+00</del>		2.0E-01				2.0E-01	
Thioacetamide	62-55-5		<del>6.2E-02</del> <del>4.7E-02</del>		6.1E+00				6.1E+00	



Table 2-5-1 Toxic Air Contaminant Trigger Levels

Chemical	CAS Number <sup>1</sup>	Acute (1-hr. max.) Trigger Level <sup>2,3</sup> (lb/hour)	Chronic Trigger Level <sup>2</sup> (lb/year)	CREL Weighting Factor <sup>9,10</sup>	CP Weighting Factor <sup>9,10</sup>	Acute Inhalation REL <sup>10</sup> (µg/m <sup>3</sup> )	Chronic Inhalation REL <sup>10</sup> (µg/m <sup>3</sup> )	Chronic Oral REL <sup>10</sup> (mg/kg-day)	Inhalation Cancer Potency Factor <sup>10</sup> (mg/kg-day) <sup>-1</sup>	Oral Cancer Potency Factor <sup>10</sup> (mg/kg-day) <sup>-1</sup>
Toluene	108-88-3	8.2E+01	1.2E+04	3.0E+02		3.7E+04	3.0E+02			
Toluene diisocyanates	26471-62-5		2.7E+00	7.0E-02	3.9E-02		7.0E-02		3.9E-02	
toluene-2,4-diisocyanate	584-84-9		2.7E+00	7.0E-02	3.9E-02		7.0E-02		3.9E-02	
toluene-2,6-diisocyanate	91-08-7		2.7E+00	7.0E-02	3.9E-02		7.0E-02		3.9E-02	
Trichloroethane, 1,1,1 (see methyl chloroform)										
Trichloroethane, 1,1,2- (vinyl trichloride)	79-00-5		<del>6.6E+00</del> <u>5.0E+00</u>		5.7E-02				5.7E-02	
Trichloroethylene	79-01-6		<del>5.4E+01</del> <u>4.1E+01</u>	6.0E+02	7.0E-03		6.0E+02		7.0E-03	
Trichlorophenol, 2,4,6-	88-06-2		<del>5.4E+00</del> <u>4.1E+00</u>		7.0E-02				7.0E-02	
Triethylamine	121-44-8	6.2E+00	7.7E+03	2.0E+02		2.8E+03	2.0E+02			
Urethane (ethyl carbamate)	51-79-6		<del>3.8E-01</del> <u>2.9E-01</u>		1.0E+00				1.0E+00	
Vanadium Compounds										
vanadium (fume or dust)	7440-62-2	6.6E-02				3.0E+01				
vanadium pentoxide	1314-62-1	6.6E-02				3.0E+01				
Vinyl acetate	108-05-4		7.7E+03	2.0E+02			2.0E+02			
Vinyl chloride (chloroethylene)	75-01-4	4.0E+02	<del>1.4E+00</del> <u>1.1E+00</u>		2.7E-01	1.8E+05			2.7E-01	

**Table 2-5-1 Toxic Air Contaminant Trigger Levels**

Chemical	CAS Number <sup>1</sup>	Acute (1-hr. max.) Trigger Level <sup>2,3</sup> (lb/hour)	Chronic Trigger Level <sup>2</sup> (lb/year)	CREL Weighting Factor <sup>9,10</sup>	CP Weighting Factor <sup>9,10</sup>	Acute Inhalation REL <sup>10</sup> ( $\mu\text{g}/\text{m}^3$ )	Chronic Inhalation REL <sup>10</sup> ( $\mu\text{g}/\text{m}^3$ )	Chronic Oral REL <sup>10</sup> (mg/kg-day)	Inhalation Cancer Potency Factor <sup>10</sup> (mg/kg-day) <sup>-1</sup>	Oral Cancer Potency Factor <sup>10</sup> (mg/kg-day) <sup>-1</sup>
Vinylidene chloride (1,1-dichloroethylene)	75-35-4		2.7E+03	7.0E+01			7.0E+01			
Xylenes (mixed isomers)	1330-20-7	4.9E+01	2.7E+04	7.0E+02		2.2E+04	7.0E+02			
m-xylene	108-38-3	4.9E+01	2.7E+04	7.0E+02		2.2E+04	7.0E+02			
o-xylene	95-47-6	4.9E+01	2.7E+04	7.0E+02		2.2E+04	7.0E+02			
p-xylene	106-42-3	4.9E+01	2.7E+04	7.0E+02		2.2E+04	7.0E+02			

*(Amended January 6, 2010)*

**1 Chemical Abstract Number (CAS):**

CAS numbers are not available for many chemical groupings and mixtures.

**2 Trigger Levels:**

All trigger levels are presented in scientific notation (i.e., exponential form based on powers of the based number 10.) For example: 4.9E+01 is equivalent to  $4.9 \times 10^1$ , or 49; 6.6E-02 is equivalent to  $6.6 \times 10^{-2}$ , or 0.066; and 5.8E+00 is equivalent to  $5.8 \times 10^0$ , or 5.8.

**3 Averaging Period for Non-Cancer Acute Trigger Levels:**

The averaging period for non-cancer acute trigger levels is generally a one-hour exposure. However, some are based on several hours of exposure. The screening levels for the following substances should be compared to estimated emissions occurring over a time period other than maximum one-hour emissions (e.g., a 4-hour trigger level should be compared to the maximum 4-hour average concentration estimated from the maximum emissions occurring in a 4-hour period). However, for conservative screening purposes, a maximum one-hour emission level can be compared to all acute trigger levels.

~~4-hour: arsenic and inorganic arsenic compounds~~

~~6-hour: benzene, carbon disulfide, ethylene glycol ethyl ether, ethylene glycol ethyl ether acetate, ethylene glycol methyl ether~~

~~7-hour: carbon tetrachloride, chloroform~~

**4 Chemicals for Which Multi-Pathway Risks are Assessed:**

Trigger levels are adjusted to include the impact from default non-inhalation pathways.

**Table 2-5-1 Toxic Air Contaminant Trigger Levels**

**5 Asbestos:**

The units for the inhalation cancer potency factor for asbestos are  $(100 \text{ PCM fibers/m}^3)^{-1}$ . A conversion factor of  $100 \text{ fibers}/0.003 \mu\text{g}$  can be multiplied by a receptor concentration of asbestos expressed in  $\mu\text{g/m}^3$ . Unless other information necessary to estimate the concentration ( $\text{fibers/m}^3$ ) of asbestos at receptors of interest is available, an inhalation cancer potency factor of  $220 \text{ (mg/kg-day)}^{-1}$  is available.

**6 Diesel Exhaust Particulate Matter:**

Diesel exhaust particulate matter should be used as a surrogate for all TAC emissions from diesel-fueled compression-ignition internal combustion engines. However, diesel exhaust particulate matter should not be used for other types of diesel-fueled combustion equipment, such as boilers or turbines. For equipment other than diesel-fueled compression-ignition internal combustion engines, emissions should be determined for individual TACs and compared to the appropriate trigger level for each TAC.

~~<sup>z</sup> **Polychlorinated Biphenyls:**~~

~~— **Low Risk:** Use in cases where congeners with more than four chlorines comprise less than one-half percent of total polychlorinated biphenyls.~~

~~— **High Risk:** Use in cases where congeners with more than four chlorines do not comprise less than one-half percent of total polychlorinated biphenyls.~~

**Table 2-5-1 Toxic Air Contaminant Trigger Levels**

**7 Polychlorinated Dibenzo-p-Dioxins (PCDDs), Polychlorinated Dibenzofurans (PCDFs), and Dioxin-like Polychlorinated Biphenyls (PCBs):**

These substances are PCDDs, PCDFs, and dioxin-like PCBs for which OEHHA has adopted the World Health Organization (WHO<sub>97</sub>) Toxicity Equivalency Factor (TEF) scheme for evaluating cancer risk due to exposure to samples containing mixtures of PCDDs, PCDFs, and dioxin-like PCBs. PCDDs, PCDFs, and dioxin-like PCBs should be evaluated as PCDD-equivalent. This evaluation process consists of multiplying individual PCDD-, PCDF-, and dioxin-like PCB-specific emission levels with their corresponding TEFs listed below. The sum of these products is the PCDD-equivalent and should be compared to the PCDD-equivalent trigger level.

<u>PCDD</u>	<u>CAS Number</u>	<u>TEF</u>
2,3,7,8-tetrachlorodibenzo-p-dioxin	1746-01-6	1.0
1,2,3,7,8-pentachlorodibenzo-p-dioxin	40321-76-4	1.0
1,2,3,4,7,8-hexachlorodibenzo-p-dioxin	39227-28-6	0.1
1,2,3,6,7,8-hexachlorodibenzo-p-dioxin	57653-85-7	0.1
1,2,3,7,8,9-hexachlorodibenzo-p-dioxin	19408-74-3	0.1
1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin	35822-46-9	0.01
1,2,3,4,6,7,8,9-octachlorodibenzo-p-dioxin	3268-87-9	0.00040.0003
<u>PCDF</u>	<u>CAS Number</u>	<u>TEF</u>
2,3,7,8-tetrachlorodibenzofuran	5120-73-19	0.1
1,2,3,7,8-pentachlorodibenzofuran	57117-41-6	0.050.03
2,3,4,7,8-pentachlorodibenzofuran	57117-31-4	0.50.3
1,2,3,4,7,8-hexachlorodibenzofuran	70648-26-9	0.1
1,2,3,6,7,8-hexachlorodibenzofuran	57117-44-9	0.1
1,2,3,7,8,9-hexachlorodibenzofuran	72918-21-9	0.1
2,3,4,6,7,8-hexachlorodibenzofuran	60851-34-5	0.1
1,2,3,4,6,7,8-heptachlorodibenzofuran	67562-39-4	0.01
1,2,3,4,7,8,9-heptachlorodibenzofuran	55673-89-7	0.01
1,2,3,4,6,7,8,9-octachlorodibenzofuran	39001-02-0	0.00040.0003
<u>Dioxin-like PCBs (coplanar PCBs)</u>	<u>CAS Number</u>	<u>TEF</u>
PCB 77 (3,3',4,4'-tetrachlorobiphenyl)	32598-13-3	0.0001
PCB 81 (3,4,4',5-tetrachlorobiphenyl)	70362-50-4	0.00040.0003
PCB 105 (2,3,3',4,4'-pentachlorobiphenyl)	32598-14-4	0.00040.00003
PCB 114 (2,3,4,4',5-pentachlorobiphenyl)	74472-37-0	0.00050.00003
PCB 118 (2,3',4,4',5-pentachlorobiphenyl)	31508-00-6	0.00040.00003
PCB 123 (2',3,4,4',5-pentachlorobiphenyl)	65510-44-3	0.00040.00003
PCB 126 (3,3',4,4',5-pentachlorobiphenyl)	57465-28-8	0.1
PCB 156 (2,3,3',4,4',5-hexachlorobiphenyl)	38380-08-4	0.00050.00003
PCB 157 (2,3,3',4,4',5'-hexachlorobiphenyl)	69782-90-7	0.00050.00003
PCB 167 (2,3',4,4',5,5'-hexachlorobiphenyl)	52663-72-6	0.00040.00003
PCB 169 (3,3',4,4',5,5'-hexachlorobiphenyl)	32774-16-6	0.040.03

**Table 2-5-1 Toxic Air Contaminant Trigger Levels**

PCB 170 (2,2',3,3',4,4',5-heptachlorobiphenyl)	35065-30-6	0
PCB 180 (2,2',3,4,4',5,5'-heptachlorobiphenyl)	35065-29-3	0
PCB 189 (2,3,3',4,4',5,5'-heptachlorobiphenyl)	39635-31-9	<del>0.00040</del> <u>0.00003</u>

**8 Polycyclic Aromatic Hydrocarbons (PAHs):**

These substances are PAH-derivatives that have OEHHA-developed Potency Equivalency Factors (PEFs). PAHs should be evaluated as benzo(a)pyrene-equivalents. This evaluation process consists of multiplying individual PAH-specific emission levels with their corresponding PEFs listed below. The sum of these products is the benzo(a)pyrene-equivalent level and should be compared to the benzo(a)pyrene equivalent trigger level.

<u>PAH or derivative</u>	<u>CAS Number</u>	<u>PEF</u>
benz(a)anthracene	56-55-3	0.1
benzo(b)fluoranthene	205-99-2	0.1
benzo(j)fluoranthene	205-82-3	0.1
benzo(k)fluoranthene	207-08-9	0.1
benzo(a)pyrene	50-32-8	1.0
chrysene	218-01-9	0.01
dibenz(a,j)acridine	224-42-0	0.1
dibenz(a,h)acridine	226-36-8	0.1
dibenz(a,h)anthracene	53-70-3	1.05
7H-dibenzo(c,g)carbazole	194-59-2	1.0
dibenzo(a,e)pyrene	192-65-4	1.0
dibenzo(a,h)pyrene	189-64-0	10
dibenzo(a,i)pyrene	189-55-9	10
dibenzo(a,l)pyrene	191-30-0	10
7,12-dimethylbenz(a)anthracene	57-97-6	64
indeno(1,2,3-cd)pyrene	193-39-5	0.1
5-methylchrysene	3697-24-3	1.0
3-methylcholanthrene	56-49-5	5.7
5-nitroacenaphthene	602-87-9	0.03
1-nitropyrene	5522-43-0	0.1
4-nitropyrene	57835-92-4	0.1
1,6-dinitropyrene	42397-64-8	10
1,8-dinitropyrene	42397-65-9	1.0
6-nitrocrysene	7496-02-8	10
2-nitrofluorene	607-57-8	0.01

**9 CREL (chronic Reference Exposure Level) and CP (Cancer Potency) Weighting Factors:** These factors are to be used for purposes of calculating toxicity weighted emissions. Factors were developed assuming multi-pathway exposure where applicable, and continuously operating sources for residential receptor exposure.

**10 Health Effects Values:** All reference exposure levels (RELs) and cancer potency factors (CPFs) are the health effects values for the California Air Toxics Hot Spots Program that have been approved by the Cal/EPA Office of Environmental Health Hazard Assessment (OEHHA) as of November 1, 2015.

Table 2-5-1 Toxic Air Contaminant Trigger Levels

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*(Amended January 6, 2010)*