APPENDIX I

OUTPUT TABLES FROM THE ACUTE RISK CALCULATOR SPREADSHEETS

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ACUTE HAZARD INDEX

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ACUTE HAZARD INDEX

COPC	CAS No.	Acute Inhalation Exposure Criteria			Max On-site Locaiton		Max Fenceline Locaiton	
					Acute Air Concentration	Acute Hazard Quotient	Acute Air Concentration	Acute Hazard Quotient
		(mg/m^3)	Basis	Ave. Time	(µg/m^3)	(dimensionless)	(µg/m^3)	(dimensionless)
		AIEC			$C_{(air)i, acute}$	HQ_{Ai}	$C_{(air)i, acute}$	HQ_{Ai}
1,1,1,2-tetrachloroethane	630-20-6	3.7	TEEL-1	1-hour				
1,1,1-trichloroethane	71-55-6	68	Cal/EPA Acute REL	1 hour				
1,1,2,2-tetrachloroethane	79-34-5	7	TEEL-1	1-hour	1.62E-01	2.31E-05	5.79E-02	8.27E-06
1,1-dichloroethane	75-34-3	650	TEEL-1	1-hour	2.70E-02	4.15E-08	8.07E-03	1.24E-08
1,1-dichloroethene	75-35-4	180	TEEL-1	1-hour	4.79E-05	2.66E-10	2.26E-06	1.26E-11
1,2,3-trichlorobenzene	87-61-6	6.3	TEEL-1	1-hour	1.50E-04	2.38E-08	5.41E-05	8.59E-09
1,2,4-trichlorobenzene	120-82-1	3.4	TEEL-1	1-hour	8.32E-08	2.45E-11	3.93E-09	1.16E-12
1,2,4-trimethyl benzene	95-63-6	687.8512	AEGL-1	1-hour	6.20E-04	9.01E-10	1.01E-04	1.47E-10
1,2-bis(ethylthio)-ethene	NA							
1,2-bis(vinylthio)-ethane	NA							
1,2-dichlorobenzene	95-50-1	300	TEEL-1	1-hour	1.60E-07	5.35E-13	7.58E-09	2.53E-14
1,2-dichlorobutane	616-21-7				6.63E-01		2.33E-01	
1,2-dichloroethane	107-06-2	202.2507	AIHA ERPG-1	1-hour	1.79E+01	8.86E-05	6.01E+00	2.97E-05
1,2-dichloropropane	78-87-5	140	TEEL-1	1-hour	4.26E-04	3.04E-09	1.45E-04	1.04E-09
1,3-dichlorobenzene	541-73-1	16	TEEL-1	1-hour	1.43E-07	8.94E-12	6.76E-09	4.22E-13
1,4-dichlorobenzene	106-46-7	60	TEEL-1	1-hour	1.60E-07	2.66E-12	7.54E-09	1.26E-13
1,4-dioxane	123-91-1	3	Cal/EPA Acute REL	1 hour				
1,4-dithiane	505-29-3				7.86E+00		2.79E+00	
1,4-oxathiane	15980-15-1	10	TEEL-1	1-hour	8.60E+00	8.60E-04	3.01E+00	3.01E-04
1-chlorobutane	109-69-3	5.6	TEEL-1	1-hour	2.88E-05	5.14E-09	9.42E-06	1.68E-09
1-hexene	592-41-6	170	TEEL-1	1-hour	1.08E-02	6.33E-08	3.31E-03	1.95E-08
2,2-dimethyl-trans-thiirane	3772-13-2							
2,3-dimethyl-thiophene	632-16-6							
2,4,6-trinitrotoluene	118-96-7	0.3	TEEL-1	1-hour				
2,4-dichlorophenol	120-83-2	1.332538	AIHA ERPG-1	1-hour	2.96E-08	2.22E-11	1.40E-09	1.05E-12
2,4-dinitrotoluene	121-14-2	0.6	TEEL-1	1-hour				
2,6-dinitrotoluene	606-20-2	0.6	TEEL-1	1-hour				
2-butanone	78-93-3	13	Cal/EPA Acute REL	1 hour	9.26E-02	7.12E-06	3.04E-02	2.34E-06
2-chlorobutane	78-86-4	0.47	TEEL-1	1-hour	1.27E-01	2.70E-04	3.99E-02	8.49E-05
2-chloroethoxyethane	112-26-5	0.75	TEEL-1	1-hour	1.20E+00	1.60E-03	4.33E-01	5.77E-04
2-ethyl 1,3-butadiene	3404-63-5				2.09E-03		6.76E-04	
2-hexanone	591-78-6	41	TEEL-1	1-hour	1.25E-02	3.04E-07	4.53E-03	1.10E-07
2-methyl phenol	95-48-7	20	TEEL-1	1-hour	6.36E-07	3.18E-11	3.00E-08	1.50E-12
2-methyl-1,3-dithiacyclopentane	5616-51-3							
2-methyl-1,3-dithiane	6007-26-7							
2-methyl-1,3-oxathiolane	17642-74-9							
2-methylnaphthalene	91-57-6	3	TEEL-1	1-hour	4.23E-07	1.41E-10	2.00E-08	6.66E-12
3-methyl phenol	108-39-4	20	TEEL-1	1-hour	2.21E-04	1.10E-08	7.96E-05	3.98E-09
4-methyl phenol	106-44-5	20	TEEL-1	1-hour	2.21E-04	1.10E-08	7.96E-05	3.98E-09
4-methyl-2-pentanone	108-10-1	310	TEEL-1	1-hour	1.37E-02	4.41E-08	4.81E-03	1.55E-08
acenaphthylene	208-96-8	10	TEEL-1	1-hour	1.29E-07	1.29E-11	6.11E-09	6.11E-13
acetaldehyde	75-07-0	0.47	Cal/EPA Acute REL	1 hour				
acetone	67-64-1	474.807	AEGL-1	1-hour	4.54E-01	9.57E-07	1.38E-01	2.90E-07
acetylene	74-86-2	69000	TEEL-1	1-hour	5.74E+00	8.32E-08	2.71E-01	3.93E-09
acrolein	107-02-8	0.0025	Cal/EPA Acute REL	1 hour	1.93E-03	7.74E-04	3.16E-04	1.26E-04
alpha-methylstyrene	98-83-9	480	TEEL-1	1-hour	7.44E-04	1.55E-09	1.22E-04	2.53E-10
benzene	71-43-2	0.027	Cal/EPA Acute REL	1 hour	4.84E-03	1.79E-04	1.61E-03	5.97E-05
bis(2-chloroisopropyl) ether	39638-32-9				1.71E-07		8.09E-09	
carbon disulfide	75-15-0	6.2	Cal/EPA Acute REL	1 hour	8.60E-02	1.39E-05	4.88E-03	7.88E-07
chlorobenzene	108-90-7	46.0257	AEGL-1	1-hour	2.64E-06	5.74E-11	1.25E-07	2.71E-12
chloroethane	75-00-3	260	TEEL-1	1-hour	2.13E-02	8.20E-08	3.49E-03	1.34E-08
chloroform	67-66-3	0.15	Cal/EPA Acute REL	1 hour	1.20E-02	8.00E-05	3.70E-03	2.46E-05
chloromethane	74-87-3	309.5557	AIHA ERPG-1	1-hour	6.07E-02	1.96E-07	9.70E-03	3.13E-08
chloromethoxyethane	3188-13-4				6.82E+00		2.46E+00	
cis-1,2-dichloroethene	156-59-2	554.7446	AEGL-1	1-hour	1.55E-04	2.79E-10	7.31E-06	1.32E-11
dichlorodifluoromethane	75-71-8	4900	TEEL-1	1-hour	9.05E-04	1.85E-10	4.27E-05	8.72E-12
diethyl ether	60-29-7	1500	TEEL-1	1-hour	2.00E-02	1.34E-08	5.08E-03	3.38E-09
diethyl phthalate	84-66-2	5	TEEL-1	1-hour				

ACUTE HAZARD INDEX

COPC	CAS No.	Acute Inhalation Exposure Criteria			Max On-site Locaiton		Max Fenceline Locaiton	
					Acute Air Concentration	Acute Hazard Quotient	Acute Air Concentration	Acute Hazard Quotient
		(mg/m^3)	Basis	Ave. Time	(µg/m^3)	(dimensionless)	(µg/m^3)	(dimensionless)
		AIEC			$C_{(air)i, acute}$	HQ_{Ai}	$C_{(air)i, acute}$	HQ_{Ai}
di-n-butyl phthalate	84-74-2	15	TEEL-1	1-hour				
diphenylamine	122-39-4	30	TEEL-1	1-hour				
ethane	74-84-0	3700	TEEL-1	1-hour	2.07E+00	5.61E-07	3.24E-01	8.76E-08
ethanol	64-17-5	3389.633	AIHA ERPG-1	1-hour	2.76E-01	8.13E-08	1.30E-02	3.84E-09
ethene	74-85-1	690	TEEL-1	1-hour				
ethyl centralite	85-98-3							
ethylbenzene	100-41-4	143.2519	AEGL-1	1-hour	8.93E-03	6.23E-08	1.46E-03	1.02E-08
HD	505-60-2	0.00075	STEL	1 hour	1.30E-02	1.73E-02	1.31E-03	1.75E-03
hexachlorobutadiene	87-68-3	10.65875	AIHA ERPG-1	1-hour				
hexachloroethane	67-72-1	29	TEEL-1	1-hour				
hexane	110-54-3	1100	TEEL-1	1-hour	1.34E-03	1.22E-09	2.19E-04	1.99E-10
methane	74-82-8	1900	TEEL-1	1-hour	1.15E+02	6.04E-05	5.42E+00	2.85E-06
methyl tert-butyl ether	1634-04-4	180.2605	AEGL-1	1-hour	4.96E-03	2.75E-08	8.11E-04	4.50E-09
methylene chloride	75-09-2	14	Cal/EPA Acute REL	1 hour	1.02E-01	7.30E-06	2.71E-02	1.94E-06
monoethanolamine	141-43-5	15	TEEL-1	1-hour	1.13E+01	7.53E-04	5.33E-01	3.56E-05
naphthalene	91-20-3	79	TEEL-1	1-hour	2.02E-04	2.55E-09	7.27E-05	9.20E-10
nitrobenzene	98-95-3	9.1	TEEL-1	1-hour	3.12E-08	3.43E-12	1.47E-09	1.62E-13
nitroglycerin	55-63-0	0.1	TEEL-1	1-hour				
octane	111-65-9	1400	TEEL-1	1-hour	2.98E-03	2.13E-09	4.86E-04	3.47E-10
pentane	109-66-0	350	TEEL-1	1-hour	3.22E-03	9.21E-09	5.27E-04	1.51E-09
phenanthrene	85-01-8	0.76	TEEL-1	1-hour	3.92E-08	5.15E-11	1.85E-09	2.43E-12
phenol	108-95-2	5.8	Cal/EPA Acute REL	1 Hour	1.33E-06	2.29E-10	6.27E-08	1.08E-11
propene	115-07-1	860	TEEL-1	1-hour	3.97E-03	4.61E-09	6.48E-04	7.54E-10
styrene	100-42-5	21	Cal/EPA Acute REL	1 hour	2.48E-05	1.18E-09	1.17E-06	5.57E-11
tert-butyl alcohol	75-65-0	450	TEEL-1	1-hour	2.45E-03	5.45E-09	4.01E-04	8.92E-10
tetracene	92-24-0							
tetrachloroethene	127-18-4	20	Cal/EPA Acute REL	1 hour	1.59E-01	7.93E-06	5.60E-02	2.80E-06
tetryl	479-45-8	4.5	TEEL-1	1-hour				
thiirane	420-12-2				2.15E-02		6.32E-03	
thiodiglycol	111-48-8	20	TEEL-1	1-hour	6.79E-01	3.40E-05	1.04E-01	5.22E-06
toluene	108-88-3	37	Cal/EPA Acute REL	1 hour	7.15E-02	1.93E-06	4.79E-03	1.30E-07
trans-1,2-dichloroethene	156-60-5	1109.489	AEGL-1	1-hour	6.62E-05	5.97E-11	3.13E-06	2.82E-12
trichloroethene	79-01-6	698.1746	AEGL-1	1-hour	6.13E-02	8.79E-08	2.07E-02	2.96E-08
vinyl chloride	75-01-4	180	Cal/EPA Acute REL	1 hour	2.64E+00	1.47E-05	5.19E-01	2.88E-06
xylenes	1330-20-7	22	Cal/EPA Acute REL	1 hour	2.63E-02	1.20E-06	4.33E-03	1.97E-07
aluminum	7429-90-5	3	TEEL-1	1-hour	7.53E-01	2.51E-04	3.56E-02	1.19E-05
ammonia	7664-41-7	3.2	Cal/EPA Acute REL	1 hour	5.50E+01	1.72E-02	1.17E+01	3.67E-03
arsenic	7440-38-2	0.0002	Cal/EPA Acute REL	1 hour	1.52E-02	7.62E-02	7.20E-04	3.60E-03
cadmium	7440-43-9	0.1	AEGL-1	1-hour	8.74E-03	8.74E-05	4.13E-04	4.13E-06
chlorine	7782-50-5	0.21	Cal/EPA Acute REL	1 hour	7.43E-01	3.54E-03	1.21E-01	5.78E-04
copper	7440-50-8	0.1	Cal/EPA Acute REL	1 hour	1.93E-01	1.93E-03	9.12E-03	9.12E-05
hydrogen chloride	7647-01-0	2.1	Cal/EPA Acute REL	1 hour	8.66E-01	4.13E-04	1.42E-01	6.74E-05
hydrogen cyanide	74-90-8	0.34	Cal/EPA Acute REL	1 hour	1.37E+00	4.04E-03	6.48E-02	1.91E-04
lead	7439-92-1	0.15	TEEL-1	1-hour	6.56E-02	4.37E-04	3.10E-03	2.06E-05
nickel	7440-02-0	0.0002	Cal/EPA Acute REL	1 hour				
silver	7440-22-4	0.1	TEEL-1	1-hour	3.95E-04	3.95E-06	1.87E-05	1.87E-07
					Total HI_A	0.126	**Total HI_A**	0.0112

SELECTION OF AIEC BASED ON ACUTE INHALATION HIERARCHICAL APPROACH

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SELECTION OF AIEC BASED ON ACUTE INHALATION HIERARCHAL APPROACH

COPC	CAS No.	Molecular Weight (g/mol)	Cal/EPA Acute REL (mg/m^3)	AEGL-1 (mg/m^3)	AIHA ERPG-1 (mg/m^3)	TEEL-1 (mg/m^3)	AEGL-2 (mg/m^3)	Selected AIEC (mg/m^3)	Basis	Ave. Time
1,1,1,2-tetrachloroethane	630-20-6	167.9				3.7E+00		**3.7E+00**	**TEEL-1**	**1-hour**
1,1,1-trichloroethane	71-55-6	133.4	6.8E+01	1.3E+03	1.9E+03	1.3E+03	3.3E+03	**6.8E+01**	**Cal/EPA Acute REL**	**1 hour**
1,1,2,2-tetrachloroethane	79-34-5	167.8				7.0E+00		**7.0E+00**	**TEEL-1**	**1-hour**
1,1-dichloroethane	75-34-3	99.0				6.5E+02		**6.5E+02**	**TEEL-1**	**1-hour**
1,1-dichloroethene	75-35-4	96.5				1.8E+02		**1.8E+02**	**TEEL-1**	**1-hour**
1,2,3-trichlorobenzene	87-61-6	181.4				6.3E+00		**6.3E+00**	**TEEL-1**	**1-hour**
1,2,4-trichlorobenzene	120-82-1	181.4				3.4E+00		**3.4E+00**	**TEEL-1**	**1-hour**
1,2,4-trimethyl benzene	95-63-6	120.2		6.9E+02			1.8E+03	**6.9E+02**	**AEGL-1**	**1-hour**
1,2-bis(ethylthio)-ethene	13105-10-7	148.3								
1,2-bis(vinylthio)-ethane	63938-34-7	146.3								
1,2-dichlorobenzene	95-50-1	147.0				3.0E+02		**3.0E+02**	**TEEL-1**	**1-hour**
1,2-dichlorobutane	616-21-7	127.0								
1,2-dichloroethane	107-06-2	99.0			2.0E+02			**2.0E+02**	**AIHA ERPG-1**	**1-hour**
1,2-dichloropropane	78-87-5	113.0				1.4E+02		**1.4E+02**	**TEEL-1**	**1-hour**
1,3-dichlorobenzene	541-73-1	147.0				1.6E+01		**1.6E+01**	**TEEL-1**	**1-hour**
1,4-dichlorobenzene	106-46-7	147.0				6.0E+01		**6.0E+01**	**TEEL-1**	**1-hour**
1,4-dioxane	123-91-1	88.1	3.0E+00	6.1E+01			1.2E+03	**3.0E+00**	**Cal/EPA Acute REL**	**1 hour**
1,4-dithiane	505-29-3	120.2								
1,4-oxathiane	15980-15-1	104.2				1.0E+01		**1.0E+01**	**TEEL-1**	**1-hour**
1-chlorobutane	109-69-3	92.6				5.6E+00		**5.6E+00**	**TEEL-1**	**1-hour**
1-hexene	592-41-6	84.2				1.7E+02		**1.7E+02**	**TEEL-1**	**1-hour**
2,2-dimethyl-trans-thiirane	3772-13-2	88.2								
2,3-dimethyl-thiophene	632-16-6	112.2								
2,4,6-trinitrotoluene	118-96-7	227.1				3.0E-01		**3.0E-01**	**TEEL-1**	**1-hour**
2,4-dichlorophenol	120-83-2	163.0			1.3E+00			**1.3E+00**	**AIHA ERPG-1**	**1-hour**
2,4-dinitrotoluene	121-14-2	182.1				6.0E-01		**6.0E-01**	**TEEL-1**	**1-hour**
2,6-dinitrotoluene	606-20-2	182.2				6.0E-01		**6.0E-01**	**TEEL-1**	**1-hour**
2-butanone	78-93-3	72.1	1.3E+01	5.9E+02			8.0E+03	**1.3E+01**	**Cal/EPA Acute REL**	**1 hour**
2-chlorobutane	78-86-4	92.6				4.7E-01		**4.7E-01**	**TEEL-1**	**1-hour**
2-chloroethoxyethane	112-26-5	187.1				7.5E-01		**7.5E-01**	**TEEL-1**	**1-hour**
2-ethyl 1,3-butadiene	3404-63-5	82.1								
2-hexanone	591-78-6	100.2				4.1E+01		**4.1E+01**	**TEEL-1**	**1-hour**
2-methyl phenol	95-48-7	108.1				2.0E+01		**2.0E+01**	**TEEL-1**	**1-hour**
2-methyl-1,3-dithiacyclopentane	5616-51-3	120.2								
2-methyl-1,3-dithiane	6007-26-7	134.3								
2-methyl-1,3-oxathiolane	17642-74-9	104.2								
2-methylnaphthalene	91-57-6	142.2				3.0E+00		**3.0E+00**	**TEEL-1**	**1-hour**
3-methyl phenol	108-39-4	108.1				2.0E+01		**2.0E+01**	**TEEL-1**	**1-hour**
4-methyl phenol	106-44-5	108.1				2.0E+01		**2.0E+01**	**TEEL-1**	**1-hour**
4-methyl-2-pentanone	108-10-1	100.2				3.1E+02		**3.1E+02**	**TEEL-1**	**1-hour**
acenaphthylene	208-96-8	152.2				1.0E+01		**1.0E+01**	**TEEL-1**	**1-hour**
acetaldehyde	75-07-0	44.1	4.7E-01	8.1E+01	1.8E+01		4.9E+02	**4.7E-01**	**Cal/EPA Acute REL**	**1 hour**
acetone	67-64-1	58.1		4.7E+02			7.6E+03	**4.7E+02**	**AEGL-1**	**1-hour**
acetylene	74-86-2	26				6.9E+04		**6.9E+04**	**TEEL-1**	**1-hour**
acrolein	107-02-8	56.1	2.5E-03	6.9E-02	1.1E-01		2.3E-01	**2.5E-03**	**Cal/EPA Acute REL**	**1 hour**
alpha-methylstyrene	98-83-9	118.0				4.8E+02		**4.8E+02**	**TEEL-1**	**1-hour**
benzene	71-43-2	78.1	2.7E-02	1.7E+02	1.6E+02		2.6E+03	**2.7E-02**	**Cal/EPA Acute REL**	**1 hour**
bis(2-chloroisopropyl) ether	39638-32-9	171.1								
carbon disulfide	75-15-0	76.1	6.2E+00	4.0E+01	3.1E+00		5.0E+02	**6.2E+00**	**Cal/EPA Acute REL**	**1 hour**
chlorobenzene	108-90-7	112.6		4.6E+01		4.6E+01	6.9E+02	**4.6E+01**	**AEGL-1**	**1-hour**
chloroethane	75-00-3	64.5				2.6E+02		**2.6E+02**	**TEEL-1**	**1-hour**
chloroform	67-66-3	119.4	1.5E-01			9.8E+00	3.1E+02	**1.5E-01**	**Cal/EPA Acute REL**	**1 hour**
chloromethane	74-87-3	50.5			3.1E+02	2.1E+02	1.9E+03	**3.1E+02**	**AIHA ERPG-1**	**1-hour**
chloromethoxyethane	3188-13-4	94.5								
cis-1,2-dichloroethylene	156-59-2	96.9		5.5E+02			2.0E+03	**5.5E+02**	**AEGL-1**	**1-hour**
dichlorodifluoromethane	75-71-8	120.9				4.9E+03		**4.9E+03**	**TEEL-1**	**1-hour**
diethyl ether	60-29-7	74.1				1.5E+03		**1.5E+03**	**TEEL-1**	**1-hour**

SELECTION OF AIEC BASED ON ACUTE INHALATION HIERARCHAL APPROACH

COPC	CAS No.	Molecular Weight (g/mol)	Cal/EPA Acute REL (mg/m^3)	AEGL-1 (mg/m^3)	AIHA ERPG-1 (mg/m^3)	TEEL-1 (mg/m^3)	AEGL-2 (mg/m^3)	Selected AIEC (mg/m^3)	Basis	Ave. Time
diethyl phthalate	84-66-2	222.2				5.0E+00		**5.0E+00**	**TEEL-1**	**1-hour**
di-n-butyl phthalate	84-74-2	278.3				1.5E+01		**1.5E+01**	**TEEL-1**	**1-hour**
diphenylamine	122-39-4	169.2				3.0E+01		**3.0E+01**	**TEEL-1**	**1-hour**
ethane	74-84-0	30.1				3.7E+03		**3.7E+03**	**TEEL-1**	**1-hour**
ethanol	64-17-5	46.1			3.4E+03			**3.4E+03**	**AIHA ERPG-1**	**1-hour**
ethene	74-85-1	28.1				6.9E+02		**6.9E+02**	**TEEL-1**	**1-hour**
ethyl centralite	85-98-3	268.4								
ethylbenzene	100-41-4	106.2		1.4E+02			4.8E+03	**1.4E+02**	**AEGL-1**	**1-hour**
HD	505-60-2	159.1		6.7E-02			1.0E-01	**7.5E-04**	**STEL**	**1-hour [a]**
hexachlorobutadiene	87-68-3	260.8			1.1E+01			**1.1E+01**	**AIHA ERPG-1**	**1-hour**
hexachloroethane	67-72-1	236.7				2.9E+01		**2.9E+01**	**TEEL-1**	**1-hour**
hexane	110-54-3	86.2				1.1E+03	1.0E+04	**1.1E+03**	**TEEL-1**	**1-hour**
methane	74-82-8	16.0				1.9E+03		**1.9E+03**	**TEEL-1**	**1-hour**
methyl tert-butyl ether	1634-04-4	88.2		1.8E+02	1.8E+02		2.1E+03	**1.8E+02**	**AEGL-1**	**1-hour**
methylene chloride	75-09-2	84.9	1.4E+01	6.9E+02	1.0E+03		1.9E+03	**1.4E+01**	**Cal/EPA Acute REL**	**1 hour**
monoethanolamine	141-43-5					1.5E+01		**1.5E+01**	**TEEL-1**	**1-hour**
naphthalene	91-20-3	128.2				7.9E+01		**7.9E+01**	**TEEL-1**	**1-hour**
nitrobenzene	98-95-3					9.1E+00		**9.1E+00**	**TEEL-1**	**1-hour**
nitroglycerin	55-63-0	227.1				1.0E-01		**1.0E-01**	**TEEL-1**	**1-hour**
octane	111-65-9	114.2				1.4E+03		**1.4E+03**	**TEEL-1**	**1-hour**
pentane	109-66-0	72.2				3.5E+02		**3.5E+02**	**TEEL-1**	**1-hour**
phenanthrene	85-01-8	178.2				7.6E-01		**7.6E-01**	**TEEL-1**	**1-hour**
phenol	108-95-2	94.1	5.8E+00	5.8E+01	3.8E+01		8.8E+01	**5.8E+00**	**Cal/EPA Acute REL**	**1 Hour**
propene	115-07-1	42.1				8.6E+02		**8.6E+02**	**TEEL-1**	**1-hour**
styrene	100-42-5	104.2	2.1E+01	8.5E+01	2.1E+02	8.5E+01	5.5E+02	**2.1E+01**	**Cal/EPA Acute REL**	**1 hour**
tert-butyl alcohol	75-65-0	74.1				4.5E+02		**4.5E+02**	**TEEL-1**	**1-hour**
tetracene	92-24-0	228.3								
tetrachloroethene	127-18-4	165.8	2.0E+01	2.4E+02	6.8E+02		1.6E+03	**2.0E+01**	**Cal/EPA Acute REL**	**1 hour**
tetryl	479-45-8	287.2				4.5E+00		**4.5E+00**	**TEEL-1**	**1-hour**
thiirane	420-12-2	60.1								
thiodiglycol	111-48-8	122.2				2.0E+01		**2.0E+01**	**TEEL-1**	**1-hour**
toluene	108-88-3	92.1	3.7E+01	2.5E+02	1.9E+02		2.1E+03	**3.7E+01**	**Cal/EPA Acute REL**	**1 hour**
trans-1,2-dichloroethylene	156-60-5	96.9		1.1E+03			4.0E+03	**1.1E+03**	**AEGL-1**	**1-hour**
trichloroethene	79-01-6	131.4		7.0E+02	5.4E+02		2.4E+03	**7.0E+02**	**AEGL-1**	**1-hour**
vinyl chloride	75-01-4	62.5	1.8E+02	6.4E+02	1.3E+03		3.1E+03	**1.8E+02**	**Cal/EPA Acute REL**	**1 hour**
xylenes	1330-20-7	106.2	2.2E+01	5.6E+02			4.0E+03	**2.2E+01**	**Cal/EPA Acute REL**	**1 hour**
aluminum	7429-90-5	27.0				3.0E+00		**3.0E+00**	**TEEL-1**	**1-hour**
ammonia	7664-41-7	17.0	3.2E+00	2.1E+01	1.7E+01		1.1E+02	**3.2E+00**	**Cal/EPA Acute REL**	**1 hour**
arsenic	7440-38-2	74.9	2.0E-04			3.0E-02		**2.0E-04**	**Cal/EPA Acute REL**	**1 hour**
cadmium	7440-43-9	112.4		1.0E-01		1.0E-01	7.6E-01	**1.0E-01**	**AEGL-1**	**1-hour**
chlorine	7782-50-5	70.9	2.1E-01	1.4E+00	2.9E+00		5.8E+00	**2.1E-01**	**Cal/EPA Acute REL**	**1 hour**
copper	7440-50-8	63.5	1.0E-01			1.0E+00		**1.0E-01**	**Cal/EPA Acute REL**	**1 hour**
hydrogen chloride	7647-01-0	36.5	2.1E+00	2.7E+00	4.5E+00	2.7E+00	3.3E+01	**2.1E+00**	**Cal/EPA Acute REL**	**1 hour**
hydrogen cyanide	74-90-8	27.0	3.4E-01	2.2E+00			7.8E+00	**3.4E-01**	**Cal/EPA Acute REL**	**1 hour**
lead	7439-92-1	207.2				1.5E-01		**1.5E-01**	**TEEL-1**	**1-hour**
nickel	7440-02-0	58.7	2.0E-04			4.5E+00		**2.0E-04**	**Cal/EPA Acute REL**	**1 hour**
silver	7440-22-4	107.9				1.0E-01		**1.0E-01**	**TEEL-1**	**1-hour**

Notes:

a. 0.003 mg/m^3 STEL adjusted from 15-min to 1-hour.

SUMMARY OF ACUTE INHALATION EXPOSURE GUIDELINES FOR ALL ACUTE INHALATION HIERARCHICAL REFERENCE SOURCES

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COPC	CAS Number	Molecular Weight	Cal/EPA Acute REL					AEGL-1					
		(g/mol)	(µg/m3)	Ave. Time	Species	Toxicity Endpoints	Severity	ppm (10 min. ave. time)	ppm (30 min. ave. time)	ppm (1 hour ave. time)	ppm (4 hour ave. time)	ppm (8 hour ave. time)	Proposed, Interim, or Final Value
1,1,1,2-tetrachloroethane	630-20-6	167.9											
1,1,1-trichloroethane	71-55-6	133.4	68000	1 hour	Human	Nervous system		230	230	230	230	230	Interim
1,1,2,2-tetrachloroethane	79-34-5	167.8498											
1,1-dichloroethane	75-34-3	98.9596											
1,1-dichloroethene	75-35-4	96.5											
1,2,3-trichlorobenzene	87-61-6	181.4487											
1,2,4-trichlorobenzene	120-82-1	181.449											
1,2,4-trimethyl benzene	95-63-6	120.2						180	180	140	90	45	Interim
1,2-bis(ethylthio)-ethene	13105-10-7	148.3											
1,2-bis(vinylthio)-ethane	63938-34-1	146.3											
1,2-dichlorobenzene	95-50-1	147											
1,2-dichlorobutane	616-21-7	127.01											
1,2-dichloroethane	107-06-2	98.9596											
1,2-dichloropropane	78-87-5	113											
1,3-dichlorobenzene	541-73-1	147.0											
1,4-dichlorobenzene	106-46-7	147.0											
1,4-dioxane	123-91-1	88.106	3000	1 hour	Human	Eye and respiratory irritation	Mild	17	17	17	17	17	Interim
1,4-dithiane	505-29-3	120.2272											
1,4-oxathiane	15980-15-1	104.1666											
1-chlorobutane	109-69-3	92.5681											
1-hexene	592-41-6	84.1608											
2,2-dimethyl-trans-thiirane	3772-13-2	88.2											
2,3-dimethyl-thiophene	632-16-6	112.2											
2,4,6-trinitrotoluene	118-96-7	227.13											
2,4-dichlorophenol	120-83-2	163											
2,4-dinitrotoluene	121-14-2	182.1											
2,6-dinitrotoluene	606-20-2	182.2											
2-butanone	78-93-3	72.1066	13000	1 hour	Human	Eye and respiratory irritation	Mild	200	200	200	200	200	Final
2-chlorobutane	78-86-4	92.5681											
2-chloroethoxyethane	112-26-5	187.0656											
2-ethyl 1,3-butadiene	3404-63-5	82.14											
2-hexanone	591-78-6	100.1602											
2-methyl phenol	95-48-7	108.1											
2-methyl-1,3-dithiacyclopentane	5616-51-3	120.2											
2-methyl-1,3-dithiane	6007-26-7	134.3											
2-methyl-1,3-oxathiolane	17642-74-9	104.2											
2-methylnaphthalene	91-57-6	142.2											
3-methyl phenol	108-39-4	108.1396											
4-methyl phenol	106-44-5	108.1396											
4-methyl-2-pentanone	108-10-1	100.1602											
acenaphthylene	208-96-8	152.19											
acetaldehyde	75-07-0	44.1	470	1 hour	Human	Sensory irritation; bronchi, eyes, nose, throat		45	45	45	45	45	Interim
acetone	67-64-1	58.0798						200	200	200	200	200	Interim
acetylene	74-86-2	26											
acrolein	107-02-8	56.1	2.5	1 hour	Human	Eye irritant	Mild	0.03	0.03	0.03	0.03	0.03	Final
alpha-methylstyrene	98-83-9	118											
benzene	71-43-2	78.1134	27	1 hour	Mouse	Developmental; Immune system; Hematologic system	Severe	130	73	52	18	9	Interim
bis(2-chloroisopropyl) ether	39638-32-9	171.065											
carbon disulfide	75-15-0	76.1	6200	1 hour	Rat	Reproductive / developmental	Severe	17	17	13	8.4	6.7	Final
chlorobenzene	108-90-7	112.6						10	10	10	10	10	Final
chloroethane	75-00-3	64.5											
chloroform	67-66-3	119.3779	150	1 hour	Rat	Reproductive / developmental	Severe	NR	NR	NR	NR	NR	Final
chloromethane	74-87-3	50.4877						NR	NR	NR	NR	NR	Final
chloromethoxyethane	3188-13-4	94.5407											
cis-1,2-dichloroethylene	156-59-2	96.94						140	140	140	140	140	Final
dichlorodifluoromethane	75-71-8	120.9											

COPC	CAS Number	Molecular Weight	Cal/EPA Acute REL					AEGL-1					
		(g/mol)	(µg/m3)	Ave. Time	Species	Toxicity Endpoints	Severity	ppm (10 min. ave. time)	ppm (30 min. ave. time)	ppm (1 hour ave. time)	ppm (4 hour ave. time)	ppm (8 hour ave. time)	Proposed, Interim, or Final Value
diethyl ether	60-29-7	74.1224											
diethyl phthalate	84-66-2	222.24											
di-n-butyl phthalate	84-74-2	278.34											
diphenylamine	122-39-4	169.23											
ethane	74-84-0	30.0694											
ethanol	64-17-5	46.07											
ethene	74-85-1	28.1											
ethyl centralite	85-98-3	268.3535											
ethylbenzene	100-41-4	106.2						33	33	33	33	33	Interim
HD	505-60-2	159.0732						0.06	0.02	0.01	0.003	0.001	Final
hexachlorobutadiene	87-68-3	260.762											
hexachloroethane	67-72-1	236.74											
hexane	110-54-3	86.2						NR	NR	NR	NR	NR	Final
methane	74-82-8	16.04											
methyl tert-butyl ether	1634-04-4	88.2						50	50	50	50	50	Interim
methylene chloride	75-09-2	84.9328	14000	1 hour	Human	CNS-mild	Mild	290	230	200	NR	NR	Interim
monoethanolamine	141-43-5	61.08											
naphthalene	91-20-3	128.1732											
nitrobenzene	98-95-3	123.06											
nitroglycerin	55-63-0	227.09											
octane	111-65-9	114.2											
pentane	109-66-0	72.2											
phenanthrene	85-01-8	178.2292											
phenol	108-95-2	94.1112	5800	1 Hour	Human	Respiratory system; eyes		19	19	15	9.5	6.3	Final
propene	115-07-1	42.1											
styrene	100-42-5	104.2	21000	1 hour	Human	Respiratory system; eyes; reproductive/development		20	20	20	20	20	Interim
tert-butyl alcohol	75-65-0	74.1											
tetracene	92-24-0	228.29											
tetrachloroethene	127-18-4	165.834	20000	1 hour	Human	CNS-mild; eye and respiratory irritation	Mild	35	35	35	35	35	Interim
tetryl	479-45-8	287.15											
thiirane	420-12-2	60.1136											
thiodiglycol	111-48-8	122.1818											
toluene	108-88-3	92.1402	37000	1 hour	Human	CNS-mild; eye and respiratory irritation	Mild	67	67	67	67	67	Final
trans-1,2-dichloroethylene	156-60-5	96.94						280	280	280	280	280	Final
trichloroethene	79-01-6	131.3889						260	180	130	84	77	Interim
vinyl chloride	75-01-4	62.4987	180000	1 hour	Human	CNS-mild; eye and respiratory irritation	Mild	450	310	250	140	70	Final
xylenes	1330-20-7	106.16	22000	1 hour	Human	Eye and respiratory irritation	Mild	130	130	130	130	130	Final
aluminum	7429-90-5	27											
ammonia	7664-41-7	17	3200	1 hour	Human	Eye and respiratory irritation	Mild	30	30	30	30	30	Final
arsenic	7440-38-2	74.9	0.2	1 hour	Mouse	Development (teratogenicity); cardiovascular system; nervous system							
cadmium	7440-43-9	112.4						0.13 Values in mg/m3	0.13	0.021765653	0.063	0.041	Interim
chlorine	7782-50-5	70.91	210	1 hour	Human	Respiratory system; eyes		0.5	0.5	0.5	0.5	0.5	Final
copper	7440-50-8	63.5	100	1 hour	Human	Respiratory system							
hydrogen chloride	7647-01-0	36.5	2100	1 hour	Human	Respiratory system; eyes		1.8	1.8	1.8	1.8	1.8	Final
hydrogen cyanide	74-90-8	27.03	340	1 hour	Human	Nervous system; endocrine system; cardiovascular system		2.5	2.5	2	1.3	1	Final
lead	7439-92-1	207.2											
nickel	7440-02-0	58.7	0.2	1 hour	Mouse	Immune systems							
silver	7440-22-4	107.9											

COPC	CAS Number	AIHA ERPG-1	TEEL-1		AEGL-2					
		ppm (1 hour ave. time)	mg/m3 (60 min. ave. time)		ppm (10 min. ave. time)	ppm (30 min. ave. time)	ppm (1 hour ave. time)	ppm (4 hour ave. time)	ppm (8 hour ave. time)	Proposed, Interim, or Final Value
1,1,1,2-tetrachloroethane	630-20-6		3.7	60-min						
1,1,1-trichloroethane	71-55-6	350	1250	A	930	670	600	380	310	Interim
1,1,2,2-tetrachloroethane	79-34-5		7	60-min						
1,1-dichloroethane	75-34-3		650	60-min						
1,1-dichloroethene	75-35-4		180	60-min						
1,2,3-trichlorobenzene	87-61-6		6.3	60-min						
1,2,4-trichlorobenzene	120-82-1		3.4	60-min						
1,2,4-trimethyl benzene	95-63-6				460	460	360	230	150	Interim
1,2-bis(ethylthio)-ethene	13105-10-7									
1,2-bis(vinylthio)-ethane	63938-34-1									
1,2-dichlorobenzene	95-50-1		300							
1,2-dichlorobutane	616-21-7									
1,2-dichloroethane	107-06-2	50								
1,2-dichloropropane	78-87-5		140	60-min						
1,3-dichlorobenzene	541-73-1		16	60-min						
1,4-dichlorobenzene	106-46-7		60							
1,4-dioxane	123-91-1				580	400	320	200	100	Interim
1,4-dithiane	505-29-3									
1,4-oxathiane	15980-15-1		10	60-min						
1-chlorobutane	109-69-3		5.6	60-min						
1-hexene	592-41-6	NA	170	60-min						
2,2-dimethyl-trans-thiirane	3772-13-2									
2,3-dimethyl-thiophene	632-16-6									
2,4,6-trinitrotoluene	118-96-7		0.3	60-min						
2,4-dichlorophenol	120-83-2	0.2								
2,4-dinitrotoluene	121-14-2		0.6	60-min						
2,6-dinitrotoluene	606-20-2		0.6	60-min						
2-butanone	78-93-3				4900	3400	2700	1700	1700	Interim
2-chlorobutane	78-86-4		0.47	60-min						
2-chloroethoxyethane	112-26-5		0.75	60-min						
2-ethyl 1,3-butadiene	3404-63-5									
2-hexanone	591-78-6		41	60-min						
2-methyl phenol	95-48-7		20							
2-methyl-1,3-dithiacyclopentane	5616-51-3									
2-methyl-1,3-dithiane	6007-26-7									
2-methyl-1,3-oxathiolane	17642-74-9									
2-methylnaphthalene	91-57-6		3	60-min						
3-methyl phenol	108-39-4		20	60-min						
4-methyl phenol	106-44-5		20	60-min						
4-methyl-2-pentanone	108-10-1		310	60-min						
acenaphthylene	208-96-8		10	60-min						
acetaldehyde	75-07-0	10			340	340	270	170	110	Interim
acetone	67-64-1				9300	4900	3200	1400	950	Interim
acetylene	74-86-2		69000	60-min						
acrolein	107-02-8	0.05			0.44	0.18	0.1	0.1	0.1	Final
alpha-methylstyrene	98-83-9		480	60-min						
benzene	71-43-2	50			2000	1100	800	400	200	Interim
bis(2-chloroisopropyl) ether	39638-32-9									
carbon disulfide	75-15-0	1			200	200	160	100	50	Final
chlorobenzene	108-90-7		46	A	430	300	150	150	150	Final
chloroethane	75-00-3		260	60-min						
chloroform	67-66-3	NA	9.8	60-min	120	80	64	40	29	Final
chloromethane	74-87-3	150	210	60-min	1100	1100	910	570	380	Final
chloromethoxyethane	3188-13-4									
cis-1,2-dichloroethylene	156-59-2				500	500	500	340	230	Final
dichlorodifluoromethane	75-71-8		4900	60-min						

COPC	CAS Number	AIHA ERPG-1	TEEL-1		AEGL-2					
		ppm (1 hour ave. time)	mg/m3 (60 min. ave. time)		ppm (10 min. ave. time)	ppm (30 min. ave. time)	ppm (1 hour ave. time)	ppm (4 hour ave. time)	ppm (8 hour ave. time)	Proposed, Interim, or Final Value
diethyl ether	60-29-7		1500	60-min						
diethyl phthalate	84-66-2		5	60-min						
di-n-butyl phthalate	84-74-2		15	60-min						
diphenylamine	122-39-4		30	60-min						
ethane	74-84-0		3700	60-min						
ethanol	64-17-5	1800								
ethene	74-85-1		690	60-min						
ethyl centralite	85-98-3									
ethylbenzene	100-41-4				2900	1600	1100	660	580	Interim
HD	505-60-2				0.09	0.03	0.02	0.004	0.002	Final
hexachlorobutadiene	87-68-3	1								
hexachloroethane	67-72-1		29	60-min						
hexane	110-54-3		1100	60-min	4000	2900	2900	2900	2900	Final
methane	74-82-8		1900	60-min						
methyl tert-butyl ether	1634-04-4	50			1400	800	570	400	400	Proposed
methylene chloride	75-09-2	300			1700	1200	560	100	60	Interim
monoethanolamine	141-43-5		15	60-min						
naphthalene	91-20-3		79	60-min						
nitrobenzene	98-95-3		9.1	60-min						
nitroglycerin	55-63-0		0.1	60-min						
octane	111-65-9		1400	60-min						
pentane	109-66-0		350	60-min						
phenanthrene	85-01-8		0.76	60-min						
phenol	108-95-2	10			29	29	23	15	12	Final
propene	115-07-1		860	60-min						
styrene	100-42-5	50	85.1	A	230	160	130	130	130	Interim
tert-butyl alcohol	75-65-0		450	60-min						
tetracene	92-24-0									
tetrachloroethene	127-18-4	100			230	230	230	120	81	Interim
tetryl	479-45-8		4.5	60-min						
thiirane	420-12-2									
thiodiglycol	111-48-8		20	60-min						
toluene	108-88-3	50			1400	760	560	310	250	Final
trans-1,2-dichloroethylene	156-60-5				1000	1000	1000	690	450	Final
trichloroethene	79-01-6	100			960	620	450	270	240	Interim
vinyl chloride	75-01-4	500			2800	1600	1200	820	820	Final
xylenes	1330-20-7				2500	1300	920	500	400	Final
aluminum	7429-90-5		3							
ammonia	7664-41-7	25			220	220	160	110	110	Final
arsenic	7440-38-2		0.03	60-min						
cadmium	7440-43-9		0.1	A	1.4	0.96	0.165418959	0.4	0.2	Interim
chlorine	7782-50-5	1			2.8	2.8	2	1	0.71	Final
copper	7440-50-8		1	60-min						
hydrogen chloride	7647-01-0	3	2.68	A	100	43	22	11	11	Final
hydrogen cyanide	74-90-8	NA			17	10	7.1	3.5	2.5	Final
lead	7439-92-1		0.15							
nickel	7440-02-0		4.5							
silver	7440-22-4		0.1	60-min						