

Table 2. Acute Dose-Response Values for Screening Risk Assessments (12/19/2011). AEGL = Acute exposure guideline levels for mild effects (AEGL-1) and moderate effects (AEGL-2) for 1- and 8-hour exposures. Superscripts indicate the AEGL's status: f = final, i=interim, and p=proposed. ERPG = US DOE Emergency Removal Program guidelines for mild or transient effects (ERPG-1) and irreversible or serious effects (ERPG-2) for 1-hour exposures. MRL = ATSDR minimum risk levels for no adverse effects for 1 to 14-day exposures. REL = California EPA reference exposure level for no adverse effects. Most, but not all, RELs are for 1-hour exposures. IDLH/10 = One-tenth of levels determined by NIOSH to be imminently dangerous to life and health, approximately comparable to mild effects levels for 1-hour exposures. TEEL = US DOE Temporary emergency exposure limits for no effects (TEEL-0) and mild, transient effects (TEEL-1) for 1-hour exposures. TEELs are derived according to a tiered, formula-like methodology, and do not undergo peer review. They are not recommended as the basis for regulatory decision-making, and are shown here only to inform situations where acute values from other sources are not available.

Table 2. Acute Dose-Response Values for Screening Risk Assessments (12/19/2011)			AEGL-1 (1-h)	AEGL-1 (8-h)	AEGL-2 (1-h)	AEGL-2 (8-h)	ERPG-1	ERPG-2	MRL	REL	IDLH/10	TEEL-0	TEEL-1
CHEMICAL NAME	CAS NO.	HAP NO.	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Acetaldehyde	75-07-0	1	81 ⁱ	81 ⁱ	490 ⁱ	200 ⁱ	18	360		0.47	360		
Acetamide	60-35-5	2										25	75
Acetonitrile	75-05-8	3	22 ⁱ	22 ⁱ	540 ⁱ	140 ⁱ					84		
Acetophenone	98-86-2	4										10	30
2-Acetylaminofluorene	53-96-3	5										0.25	0.75
Acrolein	107-02-8	6	0.069 ⁱ	0.069 ⁱ	0.23 ⁱ	0.23 ⁱ	0.11	0.34	0.0069	0.0025	0.46		
Acrylamide	79-06-1	7									6		
Acrylic acid	79-10-7	8	4.4 ⁱ	4.4 ⁱ	140 ⁱ	41 ⁱ	2.9	150		6			
Acrylonitrile	107-13-1	9	10 ⁱ	10 ⁱ	130 ⁱ	19 ⁱ	22	77	0.22		19		
Allyl chloride	107-05-1	10	8.8 ⁱ	8.8 ⁱ	170 ⁱ	69 ⁱ	9.4	130			78		
4-Aminobiphenyl	92-67-1	11										0.5	1.5
Aniline	62-53-3	12	30 ^f	3.8 ^f	46 ^f	5.7 ^f					38		
Anisidine	90-04-0	13									5		
Antimony compounds	7440-36-0	173									5		
Antimony pentafluoride	7783-70-2	173										0.75	0.75
Antimony potassium tartrate	304-61-0	173										1.2	4
Antimony trihydride	7803-52-3	173		ⁱ	7.7 ⁱ	0.92 ⁱ							
Antimony trioxide	1309-64-4	173										0.6	1.5
Arsenic chloride	7784-34-1	174										0.19	0.56
Arsenic compounds	7440-38-2	174								0.0002	0.5		
Arsenic oxide	1327-53-3	174		ⁱ	3 ⁱ	1.2 ⁱ							
Arsenic pentoxide	1303-28-2	174										0.015	0.045
Arsine	7784-42-1	174		^f	0.54 ^f	0.064 ^f		1.6			0.96		
Benzene	71-43-2	15	170 ⁱ	29 ⁱ	2600 ⁱ	640 ⁱ	160	480	0.029	1.3	160		
Benzidine	92-87-5	16										0.15	0.5
Benzotrichloride	98-07-7	17										0.1	0.1
Benzyl chloride	100-44-7	18					5.2	52		0.24	5.2		
Beryllium chloride	7787-47-5	175										0.015	0.04
Beryllium compounds	7440-41-7	175						0.025			0.4		
Beryllium fluoride	7787-49-7	175										0.01	0.025
Beryllium nitrate	13597-99-4	175										0.03	0.075
Beryllium oxide	1304-56-9	175										0.005	
Biphenyl	92-52-4	19		ⁱ	61 ⁱ	28 ⁱ							
Bis(2-ethylhexyl)phthalate	117-81-7	20										5	10
Bis(chloromethyl)ether	542-88-1	21		ⁱ	0.21 ⁱ	0.094 ⁱ		0.47					
Bromoform	75-25-2	22									880		
1,3-Butadiene	106-99-0	23	1500 ⁱ	1500 ⁱ	12000 ⁱ	6000 ⁱ	22	440	0.22		440		
Cadmium compounds	7440-43-9	176							0.00003		0.9		
Cadmium oxide	1306-19-0	176										0.005	0.035
Cadmium stearate	2223-93-0	176										0.03	0.15

Table 2. Acute Dose-Response Values for Screening Risk Assessments (12/19/2011). AEGL = Acute exposure guideline levels for mild effects (AEGL-1) and moderate effects (AEGL-2) for 1- and 8-hour exposures. Superscripts indicate the AEGL's status: f = final, i=interim, and p=proposed. ERPG = US DOE Emergency Removal Program guidelines for mild or transient effects (ERPG-1) and irreversible or serious effects (ERPG-2) for 1-hour exposures. MRL = ATSDR minimum risk levels for no adverse effects for 1 to 14-day exposures. REL = California EPA reference exposure level for no adverse effects. Most, but not all, RELs are for 1-hour exposures. IDLH/10 = One-tenth of levels determined by NIOSH to be imminently dangerous to life and health, approximately comparable to mild effects levels for 1-hour exposures. TEEL = US DOE Temporary emergency exposure limits for no effects (TEEL-0) and mild, transient effects (TEEL-1) for 1-hour exposures. TEELs are derived according to a tiered, formula-like methodology, and do not undergo peer review. They are not recommended as the basis for regulatory decision-making, and are shown here only to inform situations where acute values from other sources are not available.

Table 2. Acute Dose-Response Values for Screening Risk Assessments (12/19/2011)			AEGL-1 (1-h)	AEGL-1 (8-h)	AEGL-2 (1-h)	AEGL-2 (8-h)	ERPG-1	ERPG-2	MRL	REL	IDLH/10	TEEL-0	TEEL-1
CHEMICAL NAME	CAS NO.	HAP NO.	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Calcium cyanamide	156-62-7	24										0.5	1.5
Captan	133-06-2	26										5	15
Carbaryl	63-25-2	27									10		
Carbon disulfide	75-15-0	28	40 ^f	21 ^f	500 ^f	160 ^f	3.1	500		6.2	160		
Carbon tetrachloride	56-23-5	29	280 ⁱ	120 ⁱ	1200 ⁱ	510 ⁱ	130	630		1.9	130		
Carbonyl sulfide	463-58-1	30			140 ⁱ	57 ⁱ							
Catechol	120-80-9	31										23	68
Chloramben	133-90-4	32										35	100
Chlordane	57-74-9	33									10		
Chlorine	7782-50-5	34	1.5 ^f	1.5 ^f	5.8 ^f	2.1 ^f	2.9	8.7	0.2	0.21	2.9		
Chloroacetic acid	79-11-8	35			26 ^f	3.2 ^f							
2-Chloroacetophenone	532-27-4	36											
Chlorobenzene	108-90-7	37	46 ⁱ	46 ⁱ	690 ⁱ	690 ⁱ					460		
Chlorobenzilate	510-15-6	38										0.075	0.25
Chloroform	67-66-3	39			310 ⁱ	140 ⁱ		240	0.49	0.15	240		
Chloromethyl methyl ether	107-30-2	40			1.6 ⁱ	0.73 ⁱ		3.3					
Chloroprene	126-99-8	41									110		
Chromium (III) compounds	16065-83-1	177											
Chromium (VI) compounds	18540-29-9	177									1.5		
Chromium (VI) trioxide, chromic acid mist	11115-74-5	177									1.5		
Chromium chloride	10025-73-7	177										1.5	4
Chromium compounds	7440-47-3	177										1	1.5
Cobalt bromide	7789-43-7	178										0.2	0.2
Cobalt carbonate	513-79-1	178										0.12	0.12
Cobalt carbonyl	10210-68-1	178										0.27	0.27
Cobalt chloride	7646-79-9	178										0.12	0.12
Cobalt compounds	7440-48-4	178									2		
Cobalt hydrocarbonyl	16842-03-8	178						0.9					
Cobalt nitrate	Co Nitrate	178										0.15	0.15
Cobalt oxides (mixed)	COBOXIDES	178										0.075	0.075
Coke Oven Emissions	8007-45-2	179										0.1	1.2
m-Cresol	108-39-4	44									110		
o-Cresol	95-48-7	43									110		
p-Cresol	106-44-5	45									110		
Cresols (mixed)	1319-77-3	42									110		
Cumene	98-82-8	46	250 ⁱ	250 ⁱ	1500 ⁱ	640 ⁱ					440		
Cyanophos	2636-26-2	180										1.2	3.5
Cyanuric fluoride	675-14-9	180										0.17	0.17
Cyanide compounds	57-12-5	180									2.5		
Acetone cyanohydrin	75-86-5	180	7 ^f	3.5 ^f	25 ^f	8.7 ^f							

Table 2. Acute Dose-Response Values for Screening Risk Assessments (12/19/2011). AEGL = Acute exposure guideline levels for mild effects (AEGL-1) and moderate effects (AEGL-2) for 1- and 8-hour exposures. Superscripts indicate the AEGL's status: f = final, i=interim, and p=proposed. ERPG = US DOE Emergency Removal Program guidelines for mild or transient effects (ERPG-1) and irreversible or serious effects (ERPG-2) for 1-hour exposures. MRL = ATSDR minimum risk levels for no adverse effects for 1 to 14-day exposures. REL = California EPA reference exposure level for no adverse effects. Most, but not all, RELs are for 1-hour exposures. IDLH/10 = One-tenth of levels determined by NIOSH to be imminently dangerous to life and health, approximately comparable to mild effects levels for 1-hour exposures. TEEL = US DOE Temporary emergency exposure limits for no effects (TEEL-0) and mild, transient effects (TEEL-1) for 1-hour exposures. TEELs are derived according to a tiered, formula-like methodology, and do not undergo peer review. They are not recommended as the basis for regulatory decision-making, and are shown here only to inform situations where acute values from other sources are not available.

Table 2. Acute Dose-Response Values for Screening Risk Assessments (12/19/2011)			AEGL-1 (1-h)	AEGL-1 (8-h)	AEGL-2 (1-h)	AEGL-2 (8-h)	ERPG-1	ERPG-2	MRL	REL	IDLH/10	TEEL-0	TEEL-1
CHEMICAL NAME	CAS NO.	HAP NO.	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Barium cyanide	542-62-1	180										0.6	2
Calcium cyanide	592-01-8	180	3.8 ⁱ	1.9 ⁱ	13 ⁱ	4.7 ⁱ							
Copper cyanide	544-92-3	180										1.2	4
Cyanogen	460-19-5	180	4.3 ⁱ	2.1 ⁱ	18 ⁱ	9.2 ⁱ							
Cyanogen bromide	506-68-3	180										20	44
Cyanogen chloride	506-77-4	180						1					
Cyanogen iodide	506-78-5	180										35	100
Hydrogen cyanide	74-90-8	180	2.2 ^f	1.1 ^f	7.8 ^f	2.8 ^f		11		0.34	5.5		
Potassium cyanide	151-50-8	180										5	5
Potassium silver cyanide	506-61-6	180										1	3
Potassium thiocyanate	333-20-0	180										10	35
Silver cyanide	506-64-9	180										25	25
Sodium cyanide	143-33-9	180										5	5
Zinc cyanide	557-21-1	180										20	20
2,4-D, salts and esters	94-75-7	47									10		
DDE	72-55-9	48										10	30
Diazomethane	334-88-3	49										0.34	1
Dibenzofuran	132-64-9	50										10	30
2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	187										0.000025	0.000075
1,2-Dibromo-3-chloropropane	96-12-8	51										0.0097	0.029
Dibutylphthalate	84-74-2	52									400		
p-Dichlorobenzene	106-46-7	53							12		90		
3,3'-Dichlorobenzidine	91-94-1	54										2.1	6.2
Dichloroethyl ether	111-44-4	55									58		
1,3-Dichloropropene	542-75-6	56										4.5	14
Dichlorvos	62-73-7	57	0.99 ^p	0.99 ^p	5.1 ^p	5.1 ^p			0.018		10		
Diesel engine emissions	EMIS.	999										35	100
Diethanolamine	111-42-2	58										2	6
Diethyl sulfate	64-67-5	60										1.9	4.7
N,N-diethyl/dimethylaniline	Dialks	59											
3,3'-Dimethoxybenzidine	119-90-4	61										1.5	5
p-Dimethylaminoazobenzene	60-11-7	62										15	50
3,3'-Dimethylbenzidine	119-93-7	63										0.1	0.3
Dimethyl carbamoyl chloride	79-44-7	64										0.88	2.6
Dimethyl formamide	68-12-2	65			270 ⁱ	110 ⁱ	6	300			150		
Dimethyl phthalate	131-11-3	67									200		
Dimethyl sulfate	77-78-1	68	0.12 ⁱ	0.045 ⁱ	0.62 ⁱ	0.22 ⁱ						3.6	
N,N-dimethylaniline	121-69-7	59										50	
1,1-Dimethylhydrazine	57-14-7	66			7.4 ^f	0.93 ^f						3.7	
4,6-Dinitro-o-cresol	534-52-1	69										0.5	

Table 2. Acute Dose-Response Values for Screening Risk Assessments (12/19/2011). AEGL = Acute exposure guideline levels for mild effects (AEGL-1) and moderate effects (AEGL-2) for 1- and 8-hour exposures. Superscripts indicate the AEGL's status: f = final, i=interim, and p=proposed. ERPG = US DOE Emergency Removal Program guidelines for mild or transient effects (ERPG-1) and irreversible or serious effects (ERPG-2) for 1-hour exposures. MRL = ATSDR minimum risk levels for no adverse effects for 1 to 14-day exposures. REL = California EPA reference exposure level for no adverse effects. Most, but not all, RELs are for 1-hour exposures. IDLH/10 = One-tenth of levels determined by NIOSH to be imminently dangerous to life and health, approximately comparable to mild effects levels for 1-hour exposures. TEEL = US DOE Temporary emergency exposure limits for no effects (TEEL-0) and mild, transient effects (TEEL-1) for 1-hour exposures. TEELs are derived according to a tiered, formula-like methodology, and do not undergo peer review. They are not recommended as the basis for regulatory decision-making, and are shown here only to inform situations where acute values from other sources are not available.

Table 2. Acute Dose-Response Values for Screening Risk Assessments (12/19/2011)			AEGL-1 (1-h)	AEGL-1 (8-h)	AEGL-2 (1-h)	AEGL-2 (8-h)	ERPG-1	ERPG-2	MRL	REL	IDLH/10	TEEL-0	TEEL-1
CHEMICAL NAME	CAS NO.	HAP NO.	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
2,4-dinitrophenol	51-28-5	70										3	7.5
2,4-Dinitrotoluene	121-14-2	71									5		
2,4/2,6-Dinitrotoluene (mixture)	25321-14-6	71										0.2	0.6
1,4-Dioxane	123-91-1	72	61 ⁱ	61 ⁱ	1200 ⁱ	360 ⁱ			7.2	3	180		
1,2-Diphenylhydrazine	122-66-7	73										10	30
Epichlorohydrin	106-89-8	74	22 ⁱ	22 ⁱ	91 ⁱ	38 ⁱ	19	76		1.3	28		
1,2-Epoxybutane	106-88-7	75	210 ⁱ	210 ⁱ	410 ⁱ	410 ⁱ							
Ethyl acrylate	140-88-5	76	34 ⁱ	34 ⁱ	150 ⁱ	38 ⁱ	0.041	120			120		
Ethyl benzene	100-41-4	77	140 ⁱ	140 ⁱ	4800 ⁱ	2500 ⁱ				22	350		
Ethyl carbamate	51-79-6	78										500	500
Ethyl chloride	75-00-3	79							40		1000		
Ethylene dibromide	106-93-4	80	130 ⁱ	35 ⁱ	180 ⁱ	50 ⁱ					77		
Ethylene dichloride	107-06-2	81					200	810			20		
Ethylene glycol	107-21-1	82							2				
Ethylene imine (Aziridine)	151-56-4	83		^f	8.1 ^f	0.83 ^f							
Ethylene oxide	75-21-8	84		^f	81 ^f	14 ^f		90			140		
Ethylene thiourea	96-45-7	85										3.5	10
Ethylidene dichloride (1,1-Dichloroethane)	75-34-3	86									1200		
Formaldehyde	50-00-0	87	1.1 ^f	1.1 ^f	17 ^f	17 ^f	1.2	12	0.049	0.055	2.5		
Diethylene glycol monobutyl ether	112-34-5	181										100	150
Diethylene glycol monoethyl ether	111-90-0	181										140	410
Ethylene glycol ethyl ether	110-80-5	181								0.37	180		
Ethylene glycol ethyl ether acetate	111-15-9	181								0.14			
Ethylene glycol methyl ether	109-86-4	181								0.093			
Ethylene glycol methyl ether acetate	110-49-6	181											
Heptachlor	76-44-8	88									3.5		
Hexachlorobenzene	118-74-1	89										0.002	0.006
Hexachlorobutadiene	87-68-3	90					11	32					
Hexachlorocyclopentadiene	77-47-4	91										0.11	0.2
Hexachlorodibenzo-p-dioxin, mixture	19408-74-3	187										0.005	0.015
Hexachloroethane	67-72-1	92							58				
Hexamethylene-1,6-diisocyanate	822-06-0	93										0.034	0.1
Hexamethylphosphoramide	680-31-9	94										0.29	0.92
n-Hexane	110-54-3	95		ⁱ	12000 ⁱ	12000 ⁱ					390		
Hydrazine	302-01-2	96	0.13 ⁱ	0.13 ^f	17 ^f	2.1 ^f	0.65	6.5			6.5		
Hydrochloric acid	7647-01-0	97	2.7 ^f	2.7 ^f	33 ^f	16 ^f	4.5	30		2.1	7.5		
Hydrofluoric acid	7664-39-3	98	0.82 ^f	0.82 ^f	20 ^f	9.8 ^f	1.6	16	0.016	0.24	2.5		
Hydrogen sulfide	7783-06-4	999	0.71 ⁱ	0.46 ⁱ	38 ⁱ	24 ⁱ	0.14	42	0.098	0.042			
Hydroquinone	123-31-9	99									5		
Isophorone	78-59-1	100										28	28

Table 2. Acute Dose-Response Values for Screening Risk Assessments (12/19/2011). AEGL = Acute exposure guideline levels for mild effects (AEGL-1) and moderate effects (AEGL-2) for 1- and 8-hour exposures. Superscripts indicate the AEGL's status: f = final, i=interim, and p=proposed. ERPG = US DOE Emergency Removal Program guidelines for mild or transient effects (ERPG-1) and irreversible or serious effects (ERPG-2) for 1-hour exposures. MRL = ATSDR minimum risk levels for no adverse effects for 1 to 14-day exposures. REL = California EPA reference exposure level for no adverse effects. Most, but not all, RELs are for 1-hour exposures. IDLH/10 = One-tenth of levels determined by NIOSH to be imminently dangerous to life and health, approximately comparable to mild effects levels for 1-hour exposures. TEEL = US DOE Temporary emergency exposure limits for no effects (TEEL-0) and mild, transient effects (TEEL-1) for 1-hour exposures. TEELs are derived according to a tiered, formula-like methodology, and do not undergo peer review. They are not recommended as the basis for regulatory decision-making, and are shown here only to inform situations where acute values from other sources are not available.

Table 2. Acute Dose-Response Values for Screening Risk Assessments (12/19/2011)			AEGL-1 (1-h)	AEGL-1 (8-h)	AEGL-2 (1-h)	AEGL-2 (8-h)	ERPG-1	ERPG-2	MRL	REL	IDLH/10	TEEL-0	TEEL-1
CHEMICAL NAME	CAS NO.	HAP NO.	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Lead acetate	301-04-2	182										0.075	0.2
Lead chloride	7758-95-4	182										0.06	0.2
Lead compounds	7439-92-1	182									10		
Lead nitrate	10099-74-8	182										0.075	0.22
Lead subacetate	1335-32-6	182										0.06	0.2
Tetraethyl lead	78-00-2	182									4		
Tetramethyl lead	75-74-1	182									4		
Lindane (gamma-HCH)	58-89-9	101									5		
alpha-Hexachlorocyclohexane (a-HCH)	319-84-6	101										0.5	1.5
beta-Hexachlorocyclohexane (b-HCH)	319-85-7	101										0.5	1.5
technical Hexachlorocyclohexane (HCH)	608-73-1	101										0.15	0.5
Maleic anhydride	108-31-6	102					0.8	8			1		
Manganese chloride	7773-01-5	183										0.4	6
Manganese compounds	7439-96-5	183									50		
Manganese dioxide	1313-13-9	183										0.3	4
Manganese oxide	1317-35-7	183										0.25	0.75
Manganese sulfate	7785-87-7	183										0.5	7.5
Manganese tricarbonyl methylcyclopentadienyl	12108-13-3	183										0.6	0.6
Mercuric acetate	1600-27-7	184										0.01	0.03
Mercuric chloride	7487-94-7	184										0.035	0.12
Mercuric nitrate	10045-94-0	184										0.04	0.15
Mercuric oxide	21908-53-2	184										0.025	0.1
Mercury (elemental)	7439-97-6	184		i	1.7 ⁱ	0.33 ⁱ		2		0.0006			
Methylmercuric dicyanamide	502-39-6	184										0.015	0.04
Mercury compounds	HG_CMPDS	184									1		
Methoxyethylmercuric acetate	151-38-2	184										0.015	0.05
Methyl mercury	22967-92-6	184									0.2		
Phenylmercuric acetate	62-38-4	184										0.1	0.1
Methanol	67-56-1	103	690 ⁱ	350 ⁱ	2700 ⁱ	680 ⁱ	260	1300		28	790		
Methoxychlor	72-43-5	104									500		
Methyl bromide	74-83-9	105		i	820 ⁱ	260 ⁱ		190	0.19	3.9	97		
Methyl chloride	74-87-3	106		i	1900 ⁱ	780 ⁱ		830	1		410		
Methyl chloroform (1,1,1-Trichloroethane)	71-55-6	107	1300 ⁱ	1300 ⁱ	3300 ⁱ	1700 ⁱ	1900	3800	11	68	380		
Methyl hydrazine	60-34-4	109		f	3.2 ^f	0.39 ^f					7.2		
Methyl iodide	74-88-4	110					150	290			58		
Methyl isobutyl ketone	108-10-1	111										310	310
Methyl isocyanate	624-83-9	112		f	0.16 ^f	0.019 ^f	0.058	0.58			0.7		
Methyl methacrylate	80-62-6	113	70 ⁱ	70 ⁱ	490 ⁱ	200 ⁱ					410		
Methyl tert-butyl ether	1634-04-4	114	180 ⁱ	180 ⁱ	2100 ⁱ	1400 ⁱ			7.2				
4,4'-Methylene bis(2-chloroaniline)	101-14-4	115										0.11	0.33

Table 2. Acute Dose-Response Values for Screening Risk Assessments (12/19/2011). AEGL = Acute exposure guideline levels for mild effects (AEGL-1) and moderate effects (AEGL-2) for 1- and 8-hour exposures. Superscripts indicate the AEGL's status: f = final, i=interim, and p=proposed. ERPG = US DOE Emergency Removal Program guidelines for mild or transient effects (ERPG-1) and irreversible or serious effects (ERPG-2) for 1-hour exposures. MRL = ATSDR minimum risk levels for no adverse effects for 1 to 14-day exposures. REL = California EPA reference exposure level for no adverse effects. Most, but not all, RELs are for 1-hour exposures. IDLH/10 = One-tenth of levels determined by NIOSH to be imminently dangerous to life and health, approximately comparable to mild effects levels for 1-hour exposures. TEEL = US DOE Temporary emergency exposure limits for no effects (TEEL-0) and mild, transient effects (TEEL-1) for 1-hour exposures. TEELs are derived according to a tiered, formula-like methodology, and do not undergo peer review. They are not recommended as the basis for regulatory decision-making, and are shown here only to inform situations where acute values from other sources are not available.

Table 2. Acute Dose-Response Values for Screening Risk Assessments (12/19/2011)			AEGL-1 (1-h)	AEGL-1 (8-h)	AEGL-2 (1-h)	AEGL-2 (8-h)	ERPG-1	ERPG-2	MRL	REL	IDLH/10	TEEL-0	TEEL-1
CHEMICAL NAME	CAS NO.	HAP NO.	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Methylene chloride	75-09-2	116	690 ⁱ		1900 ⁱ	210 ⁱ	1000	2600	2.1	14	800		
Methylene diphenyl diisocyanate	101-68-8	117					0.2	5			7.5	0.081	0.81
4,4'-Methylenedianiline	101-77-9	118									130		
Naphthalene	91-20-3	119											
Nickel acetate	373-02-4	186											
Nickel carbonyl	13463-39-3	186		f	0.25 ^f	0.031 ^f					1.4		
Nickel chloride	7718-54-9	186										0.6	0.6
Nickel compounds	7440-02-0	186								0.006	1		
Nickel nitrate	13138-45-9	186										3	3
Nickel oxide	1313-99-1	186										0.75	0.75
Nickel refinery dust	NI_DUST	186											
Nickel subsulfide	12035-72-2	186											
Nickel sulfate	7786-81-4	186										2.5	2.5
Nitrobenzene	98-95-3	120									100		
4-Nitrobiphenyl	92-93-3	121										0.25	0.75
4-Nitrophenol	100-02-7	122										0.75	2.5
2-Nitropropane	79-46-9	123									36		
Nitrosodimethylamine	62-75-9	125										3.5	10
N-Nitrosomorpholine	59-89-2	126										12	30
N-Nitroso-N-methylurea	684-93-5	124										0.015	0.05
Parathion	56-38-2	127		i	1.5 ⁱ	0.48 ⁱ					1		
Polychlorinated biphenyls	1336-36-3	136										1	3
Aroclor 1016	12674-11-2	136										0.2	0.6
Aroclor 1221	11104-28-2	136										0.2	0.6
Aroclor 1242	53469-21-9	136										1	3
Aroclor 1248	12672-29-6	136										0.2	0.6
Aroclor 1254	11097-69-1	136										0.5	1.5
Aroclor 1260	11096-82-5	136										0.3	0.75
Pentachloronitrobenzene	82-68-8	128										0.5	1.5
Pentachlorophenol	87-86-5	129									0.25		
Phenol	108-95-2	130	58 ^f	24 ^f	89 ^f	46 ^f	38	190		5.8	96		
p-Phenylenediamine	106-50-3	131										0.1	0.3
Phosgene	75-44-5	132		f	1.2 ^f	0.16 ^f		2		0.004	0.81		
Phosphine	7803-51-2	133		f	2.8 ^f	0.35 ^f		0.7					
Phosphorus, white	7723-14-0	134							0.02				
Phthalic anhydride	85-44-9	135									6		
Acenaphthene	83-32-9	187										0.4	1.2
Anthracene	120-12-7	187										2	6
Benzo(a)anthracene	56-55-3	187										0.1	0.3
Benzo(b)fluoranthene	205-99-2	187										0.2	0.6

Table 2. Acute Dose-Response Values for Screening Risk Assessments (12/19/2011). AEGL = Acute exposure guideline levels for mild effects (AEGL-1) and moderate effects (AEGL-2) for 1- and 8-hour exposures. Superscripts indicate the AEGL's status: f = final, i=interim, and p=proposed. ERPG = US DOE Emergency Removal Program guidelines for mild or transient effects (ERPG-1) and irreversible or serious effects (ERPG-2) for 1-hour exposures. MRL = ATSDR minimum risk levels for no adverse effects for 1 to 14-day exposures. REL = California EPA reference exposure level for no adverse effects. Most, but not all, RELs are for 1-hour exposures. IDLH/10 = One-tenth of levels determined by NIOSH to be imminently dangerous to life and health, approximately comparable to mild effects levels for 1-hour exposures. TEEL = US DOE Temporary emergency exposure limits for no effects (TEEL-0) and mild, transient effects (TEEL-1) for 1-hour exposures. TEELs are derived according to a tiered, formula-like methodology, and do not undergo peer review. They are not recommended as the basis for regulatory decision-making, and are shown here only to inform situations where acute values from other sources are not available.

Table 2. Acute Dose-Response Values for Screening Risk Assessments (12/19/2011)			AEGL-1 (1-h)	AEGL-1 (8-h)	AEGL-2 (1-h)	AEGL-2 (8-h)	ERPG-1	ERPG-2	MRL	REL	IDLH/10	TEEL-0	TEEL-1
CHEMICAL NAME	CAS NO.	HAP NO.	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Benzo(k)fluoranthene	207-08-9	187										0.2	0.6
Benzo(g,h,i)perylene	191-24-2	187										10	30
Benzo(a)pyrene	50-32-8	187										0.2	0.6
Carbazole	86-74-8	187										0.75	2.5
beta-Chloronaphthalene	91-58-7	187										0.2	0.6
Chrysene	218-01-9	187										0.2	0.6
Dibenz(a,h)anthracene	53-70-3	187										10	30
Dibenzo[a,e]pyrene	192-65-4	187										0.035	0.1
Fluoranthene	206-44-0	187										0.005	0.015
Fluorene	86-73-7	187										7.5	25
Indeno(1,2,3-cd)pyrene	193-39-5	187										0.15	0.5
3-Methylcholanthrene	56-49-5	187										0.2	0.6
1-Methylnaphthalene	90-12-0	187										6	20
2-Methylnaphthalene	91-57-6	187										6	20
2-Naphthylamine	91-59-8	187										2.5	7.5
1-Nitropyrene	5522-43-0	187										0.1	0.3
Phenanthrene	85-01-8	187										0.4	1
Pyrene	129-00-0	187										15	15
1,3-Propane sultone	1120-71-4	137										0.4	1.2
beta-Propiolactone	57-57-8	138										1.5	1.5
Propionaldehyde	123-38-6	139	110 ⁱ	110 ⁱ	620 ⁱ	260 ⁱ							
Propoxur	114-26-1	140										0.5	1.5
Propylene dichloride	78-87-5	141							0.23		180		
Propylene oxide	75-56-9	142	170 ^f	170 ^f	690 ^f	200 ^f	120	590		3.1	95		
1,2-Propyleneimine	75-55-8	143			28 ^f	2.8 ^f							
Quinoline	91-22-5	144										1.1	3.2
Quinone	106-51-4	145									10		
Selenium compounds	7782-49-2	189										0.1	
Hydrogen selenide	7783-07-5	189			2.4 ⁱ	0.86 ⁱ		0.66		0.005	0.33		
Potassium selenate	7790-59-2	189										0.5	1.5
Selenious acid	7783-00-8	189										0.3	1
Selenium dioxide	7446-08-4	189										0.25	0.75
Selenium disulfide	7488-56-4	189										0.35	1
Selenium oxychloride	7791-23-3	189										0.4	1.2
Selenium sulfide	7446-34-6	189										0.25	0.75
Sodium selenate	13410-01-0	189										0.5	1.5
Sodium selenite	10102-18-8	189										0.4	1.2
Styrene	100-42-5	146	85 ⁱ	85 ⁱ	550 ⁱ	550 ⁱ	210	1100		21	300		
Styrene oxide	96-09-3	147										20	61
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	148										0.0006	0.0015

Table 2. Acute Dose-Response Values for Screening Risk Assessments (12/19/2011). AEGL = Acute exposure guideline levels for mild effects (AEGL-1) and moderate effects (AEGL-2) for 1- and 8-hour exposures. Superscripts indicate the AEGL's status: f = final, i=interim, and p=proposed. ERPG = US DOE Emergency Removal Program guidelines for mild or transient effects (ERPG-1) and irreversible or serious effects (ERPG-2) for 1-hour exposures. MRL = ATSDR minimum risk levels for no adverse effects for 1 to 14-day exposures. REL = California EPA reference exposure level for no adverse effects. Most, but not all, RELs are for 1-hour exposures. IDLH/10 = One-tenth of levels determined by NIOSH to be imminently dangerous to life and health, approximately comparable to mild effects levels for 1-hour exposures. TEEL = US DOE Temporary emergency exposure limits for no effects (TEEL-0) and mild, transient effects (TEEL-1) for 1-hour exposures. TEELs are derived according to a tiered, formula-like methodology, and do not undergo peer review. They are not recommended as the basis for regulatory decision-making, and are shown here only to inform situations where acute values from other sources are not available.

Table 2. Acute Dose-Response Values for Screening Risk Assessments (12/19/2011)			AEGL-1 (1-h)	AEGL-1 (8-h)	AEGL-2 (1-h)	AEGL-2 (8-h)	ERPG-1	ERPG-2	MRL	REL	IDLH/10	TEEL-0	TEEL-1
CHEMICAL NAME	CAS NO.	HAP NO.	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
1,1,2,2-Tetrachloroethane	79-34-5	149										69	
Tetrachloroethene	127-18-4	150	240 ⁱ	240 ⁱ	1600 ⁱ	550 ⁱ	680	1400	1.4	20	100		
Titanium tetrachloride	7550-45-0	151	0.54 ⁱ	0.54 ⁱ	7.8 ⁱ	0.73 ⁱ	5	20					
Toluene	108-88-3	152	750 ⁱ	750 ⁱ	4500 ⁱ	2400 ⁱ	190	1100	3.8	37	190		
2,4-Toluene diamine	95-80-7	153										4	12
2,4/2,6-Toluene diisocyanate mixture (TDI)	26471-62-5	154										1.8	5.3
2,4-Toluene diisocyanate	584-84-9	154	0.14 ^f	0.071 ^f	0.59 ^f	0.15 ^f	0.071	1.1			1.8		
o-Toluidine	95-53-4	155									22		
Toxaphene	8001-35-2	156										0.5	1
1,2,4-Trichlorobenzene	120-82-1	157										37	37
1,1,2-Trichloroethane	79-00-5	158									55		
Trichloroethylene	79-01-6	159	700 ⁱ	410 ⁱ	2400 ⁱ	1300 ⁱ	540	2700	11				
2,4,5-Trichlorophenol	95-95-4	160										10	30
2,4,6-Trichlorophenol	88-06-2	161										10	30
Triethylamine	121-44-8	162								2.8			
Trifluralin	1582-09-8	163										0.025	0.075
2,2,4-trimethylpentane	540-84-1	164										350	350
Uranium compounds	7440-61-1	188									1		
Uranium (IV) dioxide	1344-57-6	188						10					
Uranium hexafluoride	7783-81-5	188	3.6 ^f	^f	9.6 ^f	1.2 ^f	5	15					
Uranium oxide	1344-59-8	188						10					
Uranium, soluble salts	URANSOLS	188										0.05	0.6
Uranyl acetate dihydrate	541-09-3	188										0.075	1
Uranyl nitrate hexahydrate	13520-83-7	188										0.1	1.2
Vinyl acetate	108-05-4	165	24 ⁱ	24 ⁱ	630 ⁱ	260 ⁱ	18	260					
Vinyl bromide	593-60-2	166										22	66
Vinyl chloride	75-01-4	167	640 ⁱ	180 ⁱ	3100 ⁱ	2100 ⁱ	1300	13000	1.3	180			
Vinylidene chloride	75-35-4	168										20	79
m-Xylene	108-38-3	171								22	390		
o-Xylene	95-47-6	170								22	390		
p-Xylene	106-42-3	172								22	390		
Xylenes (mixed)	1330-20-7	169	560 ⁱ	560 ⁱ	4000 ⁱ	1700 ⁱ			8.7	22	390		