

## Final AEGLs (75)

### Magnesium aluminum phosphide (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	1.3	1.3	0.67	0.17	0.080
AEGL 3	2.4	2.4	1.2	0.30	0.15

NR = Not recommended due to insufficient data

### 57-14-7

### 1,1- Dimethyl hydrazine (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	18	6.0	3.0	0.75	0.38
AEGL 3	65	22	11	2.7	1.4

NR = Not recommended due to insufficient data

### 60-34-4

### Methyl hydrazine (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	5.3	1.8	0.90	0.23	0.11
AEGL 3	16	5.5	2.7	0.68	0.34

NR = Not recommended due to insufficient data

### 62-53-3

### Aniline (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	48	16	8.0	2.0	1.0
AEGL 2	72	24	12	3.0	1.5
AEGL 3	120	40	20	5.0	2.5

68-12-2

N,N-Dimethylformamide (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	110	110	91	57	38
AEGL 3	970	670	530	280	140

NR = Not recommended due to insufficient data

74-90-8

Hydrogen cyanide (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	2.5	2.5	2.0	1.3	1.0
AEGL 2	17	10	7.1	3.5	2.5
AEGL 3	27	21	15	8.6	6.6

75-15-0

Carbon disulfide (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	17	17	13	8.4	6.7
AEGL 2	200	200	160	100	50
AEGL 3	600	600	480	300	150

75-21-8

Ethylene oxide (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	80	80	45	14	7.9
AEGL 3	360	360	200	63	35

NR = Not recommended due to insufficient data

75-44-5

\*Phosgene (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.60	0.60	0.30	0.080	0.040
AEGL 3	3.6	1.5	0.75	0.20	0.090

NR = Not recommended due to insufficient data

\* Final AEGL values as published by NRC Vol 2, 2002; Phosgene was re-reviewed on Sept 9, 2009 and the new values are Interim (see in Table below); Final AEGL values for Phosgene take precedence over new Interim values. If new values are proposed as Final AEGs, these values will change.

75-55-8 Propylenimine (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	83	25	12	2.5	1.2
AEGL 3	170	50	23	5.1	2.4

NR = Not recommended due to insufficient data

75-56-9 Propylene oxide (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	73	73	73	73	73
AEGL 2	440	440	290	130	86
AEGL 3	1300	1300	870	390	260

Level of Distinct Odor Awareness = 21 ppm

75-86-5 Acetone cyanohydrin (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	2.5	2.5	2.0	1.3	1.0
AEGL 2	17	10	7.1	3.5	2.5
AEGL 3	27	21	15	8.6	6.6

77-81-6 Agent GA (Tabun) (ppm) [mg/m<sup>3</sup>]

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.0010 [0.0069]	0.00060 [0.0040]	0.00042 [0.0028]	0.00021 [0.0014]	0.00015 [0.0010]
AEGL 2	0.013 [0.087]	0.0075 [0.050]	0.0053 [0.035]	0.0026 [0.017]	0.0020 [0.013]
AEGL 3	0.11 [0.76]	0.057 [0.38]	0.039 [0.26]	0.021 [0.14]	0.015 [0.10]

78-93-3 Methyl ethyl ketone (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	200	200	200	200	200
AEGL 2	4,900*	3,400*	2,700*	1,700	1,700
AEGL 3	**see below	**see below	4,000*	2,500*	2,500*

Lower Explosive Limit (LEL) = 18,000 ppm

\* =  $\geq 10\%$  LEL; \*\* =  $\geq 50\%$  LEL

AEGL 3 - 10 min/30 min = \*\* 10,000 ppm

For values denoted as \* safety considerations against the hazard(s) of explosion(s) must be taken into account.

For values denoted as \*\* extreme safety considerations against the hazard(s) of explosion(s) must be taken into account

79-11-8 Monochloroacetic acid (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	12	8.3	6.6	1.7	0.83
AEGL 3	NR	NR	NR	NR	NR

79-21-0 Peracetic Acid (mg/m3)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.52	0.52	0.52	0.52	0.52
AEGL 2	1.6	1.6	1.6	1.6	1.6
AEGL 3	60	30	15	6.3	4.1

91-08-7 2,6-Toluenediisocyanate (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.020	0.020	0.020	0.010	0.010
AEGL 2	0.24	0.17	0.083	0.021	0.021
AEGL 3	0.65	0.65	0.51	0.32	0.16

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96-64-0

Agent GD (Soman) (ppm) [mg/m<sup>3</sup>]

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.00046 [0.0035]	0.00026 [0.0020]	0.00018 [0.0014]	0.000091 [0.00070]	0.000065 [0.00050]
AEGL 2	0.0057 [0.044]	0.0033 [0.025]	0.0022 [0.018]	0.0012 [0.0085]	0.00085 [0.0065]
AEGL 3	0.049 [0.38]	0.025 [0.19]	0.017 [0.13]	0.0091 [0.070]	0.0066 [0.051]

107-02-8

Acrolein (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.030	0.030	0.030	0.030	0.030
AEGL 2	0.44	0.18	0.10	0.10	0.10
AEGL 3	6.2	2.5	1.4	0.48	0.27

107-11-9

Allyl Amine (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.42	0.42	0.42	0.42	0.42
AEGL 2	3.3	3.3	3.3	1.8	1.2
AEGL 3	150	40	18	3.5	2.3

107-15-3

Ethylene diamine (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	12	12	9.7	6.1	4.8
AEGL 3	25	25	20	13	10

NR = Not recommended due to insufficient data

**November 7, 2011**

107-44-8

Agent GB (Sarin) (ppm) [mg/m<sup>3</sup>]

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.0012 [0.0069]	0.00068 [0.0040]	0.00048 [0.0028]	0.00024 [0.0014]	0.00017 [0.0010]
AEGL 2	0.015 [0.087]	0.0085 [0.050]	0.0060 [0.035]	0.0029 [0.017]	0.0022 [0.013]
AEGL 3	0.064 [0.38]	0.032 [0.19]	0.022 [0.13]	0.012 [0.070]	0.0087 [0.051]

108-91-8

Cyclohexylamine (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	1.8	1.8	1.8	1.8	1.8
AEGL 2	11	11	8.6	5.4	2.7
AEGL 3	38	38	30	19	9.5

108-95-2

Phenol (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	19	19	15	9.5	6.3
AEGL 2	29	29	23	15	12
AEGL 3	NR	NR	NR	NR	NR

NR = Not recommended due to insufficient data

Level of Distinct Odor Awareness (LOA) = 0.25 ppm

110-00-9

Furan (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	12	8.5	6.8	1.7	0.85
AEGL 3	35	24	19	4.8	2.4

NR = Not recommended due to insufficient data

123-73-9

trans-Crotonaldehyde (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.19	0.19	0.19	0.19	0.19
AEGL 2	27	8.9	4.4	1.1	0.56
AEGL 3	44	27	14	2.6	1.5

151-56-4

Ethylenimine (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	33	9.8	4.6	1.0	0.47
AEGL 3	51	19	9.9	2.8	1.5

NR = Not recommended due to insufficient data

Level of Distinct Odor Awareness = 11 ppm

## 156-59-2 cis-1,2-Dichloroethylene (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	140	140	140	140	140
AEGL 2	500	500	500	340	230
AEGL 3	850	850	850	620	310

## 156-60-5 cis- and trans-1,2-Dichloroethylene (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	280	280	280	280	280
AEGL 2	1,000	1,000	1,000	690	450
AEGL 3	1,700	1,700	1,700	1,200	620

## 302-01-2 Hydrazine (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.10	0.10	0.10	0.10	0.10
AEGL 2	23	16	13	3.1	1.6
AEGL 3	64	45	35	8.9	4.4

329-99-7 GF Agent (ppm) [mg/m<sup>3</sup>]

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.00049 [0.0035]	0.00028 [0.0020]	0.00020 [0.0014]	0.00010 [0.00070]	0.000070 [0.00050]
AEGL 2	0.0062 [0.044]	0.0035 [0.025]	0.0024 [0.018]	0.0013 [0.0085]	0.00091 [0.0065]
AEGL 3	0.053 [0.38]	0.027 [0.19]	0.018 [0.13]	0.0098 [0.070]	0.0071 [0.051]

505-60-2 Sulfur Mustard (ppm)[mg/m<sup>3</sup>]

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.060 [0.40]	0.020 [0.13]	0.010 [0.067]	0.0030 [0.017]	0.0010 [0.0083]
AEGL 2	0.090 [0.60]	0.030 [0.20]	0.020 [0.10]	0.0040 [0.025]	0.0020 [0.013]
AEGL 3	0.59 [3.9]	0.41 [2.7]	0.32 [2.1]	0.080 [0.53]	0.040 [0.27]

509-14-8

Tetranitromethane (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.66	0.66	0.52	0.33	0.17
AEGL 3	2.2	2.2	1.7	1.1	0.55

NR = Not recommended due to insufficient data

540-73-8

1,2-Dimethyl hydrazine (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	18	6.0	3.0	0.75	0.38
AEGL 3	65	22	11	2.7	1.4

NR = Not recommended due to insufficient data

584-84-9

2,4-Toluene Diisocyanate (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.020	0.020	0.020	0.010	0.010
AEGL 2	0.24	0.17	0.083	0.021	0.021
AEGL 3	0.65	0.65	0.51	0.32	0.16

594-42-3

Perchloromethyl mercaptan (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.013	0.013	0.013	0.013	0.013
AEGL 2	0.53	0.37	0.30	0.077	0.037
AEGL 3	1.6	1.1	0.90	0.23	0.11

Level of Distinct Odor Awareness = 0.016 ppm

624-83-9

Methyl isocyanate (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.40	0.13	0.067	0.017	0.0080
AEGL 3	1.2	0.40	0.20	0.05	0.025

NR = Not recommended since AEGL-1 irritation levels would exceed AEGL-2

630-08-0

Carbon monoxide (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	420	150	83	33	27
AEGL 3	1,700	600	330	150	130

NR = Not recommended due to insufficient data

811-97-2

HFC 134A (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	8,000	8,000	8,000	8,000	8,000
AEGL 2	13,000	13,000	13,000	13,000	13,000
AEGL 3	27,000	27,000	27,000	27,000	27,000

1305-99-3

Calcium phosphide (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	2.0	2.0	1.0	0.25	0.13
AEGL 3	3.6	3.6	1.8	0.45	0.23

NR = Not recommended due to insufficient data

1314-84-7

Zinc phosphide (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	2.0	2.0	1.0	0.25	0.13
AEGL 3	3.6	3.6	1.8	0.45	0.23

NR = Not recommended due to insufficient data

1330-20-7

Xylenes (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	130	130	130	130	130
AEGL 2	2,500*	1,300*	920*	500	400
AEGL 3	** see below	3,600*	2,500*	1,300*	1,000*

Lower Explosion Limit (LEL) = 9,000 ppm

\*  $\geq 10\%$  LEL; \*\*  $\geq 50\%$  LEL

AEGL 3 - 10 min = \*\* 7,200 ppm

For values denoted as \* safety considerations against the hazard(s) of explosion(s) must be taken into account.

For value denoted as \*\* extreme safety considerations against the hazard(s) of explosion(s) must be taken into account

1717-00-6

HCFC 141b (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	1,000	1,000	1,000	1,000	1,000
AEGL 2	1,700	1,700	1,700	1,700	1,700
AEGL 3	3,000	3,000	3,000	3,000	3,000

4170-30-3

cis-Crotonaldehyde (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.19	0.19	0.19	0.19	0.19
AEGL 2	27	8.9	4.4	1.1	0.56
AEGL 3	44	27	14	2.6	1.5

6423-43-4

Propylene Glycol Dinitrate (main component of Otto Fuel 106602-80-6) (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.33	0.33	0.17	0.050	0.030
AEGL 2	2.0	2.0	1.0	0.25	0.13
AEGL 3	16	16	13	8.0	5.3

7446-09-5

Sulfur Dioxide (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.20	0.20	0.20	0.20	0.20
AEGL 2	0.75	0.75	0.75	0.75	0.75
AEGL 3	30	30	30	19	9.6

7647-01-0

Hydrogen chloride (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	1.8	1.8	1.8	1.8	1.8
AEGL 2	100	43	22	11	11
AEGL 3	620	210	100	26	26

7664-39-3

Hydrogen fluoride (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	1.0	1.0	1.0	1.0	1.0
AEGL 2	95	34	24	12	12
AEGL 3	170	62	44	22	22

7664-41-7

Ammonia (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	30	30	30	30	30
AEGL 2	220	220	160	110	110
AEGL 3	2,700	1,600	1,100	550	390

7719-12-2

Phosphorus Trichloride (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.34	0.34	0.34	0.34	0.34
AEGL 2	2.5	2.5	2.0	1.3	0.83
AEGL 3	7.0	7.0	5.6	3.5	1.8

7726-95-6

Bromine (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.033	0.033	0.033	0.033	0.033
AEGL 2	0.55	0.33	0.24	0.13	0.095
AEGL 3	19	12	8.5	4.5	3.3

7782-65-2

Germane (ppm) 9/21/09

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.30	0.21	0.17	0.040	0.020
AEGL 3	0.91	0.63	0.50	0.13	0.060

NR = Not recommended due to insufficient data

7782-41-4

Fluorine (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	1.7	1.7	1.7	1.7	1.7
AEGL 2	20	11	5.0	2.3	2.3
AEGL 3	36	19	13	5.7	5.7

7782-50-5

Chlorine (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.50	0.50	0.50	0.50	0.50
AEGL 2	2.8	2.8	2.0	1.0	0.71
AEGL 3	50	28	20	10	7.1

7783-06-4

Hydrogen sulfide (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.75	0.60	0.51	0.36	0.33
AEGL 2	41	32	27	20	17
AEGL 3	76	59	50	37	31

Level of Distinct Odor Awareness = 0.01 ppm

7783-81-5

Uranium hexafluoride (mg/m<sup>3</sup>)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	3.6	3.6	3.6	NR	NR
AEGL 2	28	19	9.6	2.4	1.2
AEGL 3	216	72	36	9.0	4.5

7784-42-1

Arsine (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.30	0.21	0.17	0.040	0.020
AEGL 3	0.91	0.63	0.50	0.13	0.060

NR = Not recommended since AEGL-2 concentrations are below sensory effect concentrations.

7790-91-2

Chlorine trifluoride (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.12	0.12	0.12	0.12	0.12
AEGL 2	8.1	3.5	2.0	0.70	0.41
AEGL 3	84	36	21	7.3	7.3

7791-25-5

Sulfuryl chloride (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	4.7	4.7	3.7	2.3	1.2
AEGL 3	14	14	11	7.0	3.5

NR = Not recommended due to insufficient data

7803-51-2

Phosphine (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	4.0	4.0	2.0	0.50	0.25
AEGL 3	7.2	7.2	3.6	0.90	0.45

NR = Not recommended due to insufficient data

10025-87-3

Phosphorus oxychloride (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	NR	NR	NR	NR	NR
AEGL 3	1.1	1.1	0.85	0.54	0.27

NR = Not recommended due to insufficient data

10049-04-4

Chlorine dioxide (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.15	0.15	0.15	0.15	0.15
AEGL 2	1.4	1.4	1.1	0.69	0.45
AEGL 3	3.0	3.0	2.4	1.5	0.98

12057-74-8

Magnesium phosphide (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	2.0	2.0	1.0	0.25	0.13
AEGL 3	3.6	3.6	1.8	0.45	0.23

NR = Not recommended due to insufficient data

12058-85-4

Sodium phosphide (ppm)

	10 min	30 min	60 min	4 hr	8 hr

AEGL 1	NR	NR	NR	NR	NR
AEGL 2	4.0	4.0	2.0	0.50	0.25
AEGL 3	7.2	7.2	3.6	0.90	0.45

NR = Not recommended due to insufficient data

12504-13-1

Strontium phosphide (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	2.0	2.0	1.0	0.25	0.13
AEGL 3	3.6	3.6	1.8	0.45	0.23

NR = Not recommended due to insufficient data

13463-39-3

Nickel carbonyl (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.10	0.072	0.036	0.0090	0.0045
AEGL 3	0.46	0.32	0.16	0.040	0.020

NR = Not recommended due insufficient data

13463-40-6

Iron pentacarbonyl (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.077	0.077	0.060	0.037	0.025
AEGL 3	0.23	0.23	0.18	0.11	0.075

NR = Not recommended due to lack of data

19287-45-7

Diborane (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	2.0	2.0	1.0	0.25	0.13
AEGL 3	7.3	7.3	3.7	0.92	0.46

NR = Not recommended due to insufficient data

20770-41-6

Potassium phosphide (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	4.0	4.0	2.0	0.50	0.25
AEGL 3	7.2	7.2	3.6	0.90	0.45

NR = Not recommended due to insufficient data

20859-73-8

Aluminum phosphide (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	4.0	4.0	2.0	0.50	0.25
AEGL 3	7.2	7.2	3.6	0.90	0.45

NR = Not recommended due to insufficient data

50782-69-9

Agent VX (ppm)[mg/m<sup>3</sup>]

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.000052 [0.00057]	0.000030 [0.00033]	0.000016 [0.00017]	0.0000091 [0.00010]	0.0000065 [0.000071]
AEGL 2	0.00065 [0.0072]	0.00038 [0.0042]	0.00027 [0.0029]	0.00014 [0.0015]	0.000095 [0.0010]
AEGL 3	0.0027 [0.029]	0.0014 [0.015]	0.00091 [0.010]	0.00048 [0.0052]	0.00035 [0.0038]

70892-10-3 and 8008-20-6

Jet Fuels (JP-5 and JP-8) (mg/m<sup>3</sup>)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	290	290	290	290	290
AEGL 2	1,100	1,100	1,100	1,100	1,100
AEGL 3	NR	NR	NR	NR	NR

NR = Not recommended due to insufficient data

163702-07-6 and 163702-08-7

(HFE-7100) Methyl nonafluorobutyl ether (40%) and Methyl nonafluoroisobutyl ether (60%) (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	2,500	2,500	2,500	2,500	2,500
AEGL 2	8,200	8,200	8,200	8,200	8,200
AEGL 3	15,000	15,000	15,000	15,000	15,000

## Interim AEGLs (194)

Interim AEGLs are established following review and consideration of public comments by the National Advisory Committee for AEGLs (NAC/AEGL) of public comments on Proposed AEGLs that are published in the Federal Register. Interim AEGLs are available for use by organizations while awaiting NRC/NAS peer review and publication of Final AEGLs. (Dates) in parentheses refer to date of the NAC meeting when the decision was made to raise Proposed AEGLs to Interim status.

### 50-00-0 Formaldehyde (ppm) 12/12/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.90	0.90	0.90	0.90	0.90
AEGL 2	14	14	14	14	14
AEGL 3	100	70	56	35	35

### 51-75-2 Nitrogen Mustard-2 (mg/m<sup>3</sup>) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.13	0.044	0.022	0.0056	0.0028
AEGL 3	2.2	0.74	0.37	0.093	0.047

NR = Not recommended due to insufficient data

### 56-23-5 Carbon tetrachloride (ppm) 9/13/01

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	58	58	44	25	19
AEGL 2	380	250	190	100	81
AEGL 3	1100	680	520	300	220

### 56-38-2 Parathion (mg/m<sup>3</sup>) 9/21/09

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	2.8	1.9	1.5	0.96	0.48
AEGL 3	3.6	2.5	2.0	1.3	0.63

NR = Not recommended due to insufficient data

67-56-1

Methanol (ppm) 4/20/04

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	670	670	530	340	270
AEGL 2	11,000*	4,000	2,100	730	520
AEGL 3	** See below	14,000*	7,200*	2,400	1,600

Lower Explosive Limit (LEL) = 55,000 ppm

\* =  $\geq 10\%$  LEL; \*\* =  $\geq 50\%$  LEL

AEGL 3 - 10 min = \*\* 40,000 ppm

For values denoted as \* safety considerations against the hazard(s) of explosion(s) must be taken into account.

For values denoted as \*\* extreme safety considerations against the hazard(s) of explosion(s) must be taken into account

Level of Distinct Odor Awareness (LOA) = 8.9 ppm

67-64-1

Acetone (ppm) 4/14/05

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	200	200	200	200	200
AEGL 2	9,300*	4,900*	3,200*	1,400	950
AEGL 3	**see below	8,600*	5,700*	2,500	1,700

Lower Explosive Limit (LEL) = 26,000 ppm

\* =  $\geq 10\%$  LEL; \*\* =  $\geq 50\%$  LEL

AEGL 3 - 10 min = \*\* 16,000 ppm

For values denoted as \* safety considerations against the hazard(s) of explosion(s) must be taken into account.

For values denoted as \*\* extreme safety considerations against the hazard(s) of explosion(s) must be taken into account

Level of Distinct Odor Awareness (LOA) = 160 ppm

67-66-3

Chloroform (ppm) 12/13/04

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	120	80	64	40	29
AEGL 3	4,000	4,000	3,200	2,000	1,600

NR = Not recommended due to insufficient data

71-43-2

Benzene (ppm) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	130	73	52	18	9.0
AEGL 2	2,000*	1,100	800	400	200
AEGL 3	**see below	5,600*	4,000*	2,000*	990

Lower Explosive Limit (LEL) = 14,000 ppm

\* =  $\geq 10\%$  LEL; \*\* =  $\geq 50\%$  LEL

AEGL 3 - 10 min = \*\* 9,700 ppm

For values denoted as \* safety considerations against the hazard(s) of explosion(s) must be taken into account.

For values denoted as \*\* extreme safety considerations against the hazard(s) of explosion(s) must be taken into account

71-55-6

1,1,1-Trichloroethane (ppm) 4/26/00

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	230	230	230	230	230
AEGL 2	930	670	600	380	310
AEGL 3	4,200	4,200	4,200	2,700	2,100

74-83-9

Methyl bromide (ppm) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	940	380	210	67	67
AEGL 3	3,300	1,300	740	230	130

NR = Not Recommended due to insufficient data

74-87-3

Methyl chloride (ppm) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	1,100	1,100	910	570	380
AEGL 3	3,800	3,800	3,000	1,900	1,300

NR = Not Recommended due to insufficient data

74-89-5 Methyl amine (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	15	15	15	15	15
AEGL 2	160	92	64	31	21
AEGL 3	910	510	350	170	110

Level of Distinct Odor Awareness = 0.56 ppm

74-93-1 Methyl mercaptan (ppm) 10/25/04

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	59	59	47	30	19
AEGL 3	120	86	68	43	22

NR = Not recommended due to insufficient data

Level of Distinct Odor Awareness (LOA)= 1.9 ppb

74-98-6 Propane (ppm) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	10,000*	6,900*	5,500*	5,500*	5,500*
AEGL 2	**see below	**see below	**see below	**see below	**see below
AEGL 3	***see below	***see below	***see below	***see below	***see below

Lower Explosive Limit (LEL) = 23,000 ppm

\* =  $\geq 10\%$  LEL; \*\* =  $\geq 50\%$  LEL; \*\*\* =  $\geq 100\%$  LEL

AEGL 2 - 10 min/30 min/60 min/4 hr/8 hr = \*\* 17,000 ppm

AEGL 3 - 10 min/30 min/60 min/4 hr/8 hr = \*\*\* 33,000 ppm

For values denoted as \* safety considerations against the hazard(s) of explosion(s) must be taken into account.

For values denoted as \*\* & \*\*\* extreme safety considerations against the hazard(s) of explosion(s) must be taken into account

75-01-4 Vinyl chloride (ppm) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	450	310	250	140	70
AEGL 2	2,800	1,600	1,200	820	820
AEGL 3	12,000*	6,800*	4,800*	3,400	3,400

Lower Explosive Limit (LEL) = 38,000 ppm to 293,000 ppm; \* =  $\geq 10\%$  LEL

For values denoted as \* safety considerations against the hazard(s) of explosion(s) must be taken into account.

75-04-7 Ethylamine (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	7.5	7.5	7.5	7.5	7.5
AEGL 2	150	76	49	22	14
AEGL 3	810	420	270	120	76

Level of Distinct Odor Awareness = 0.74 ppm

75-05-8 Acetonitrile (ppm) 03/20/07

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	13	13	13	13	13
AEGL 2	490	490	320	130	86
AEGL 3	1000	1000	670	280	180

75-07-0 Acetaldehyde (ppm) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	45	45	45	45	45
AEGL 2	340	340	270	170	110
AEGL 3	1100	1100	840	530	260

Level of Distinct Odor Awareness (LOA)= 0.56 ppm

75-08-1 Ethyl mercaptan (ppm) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	1.0	1.0	1.0	1.0	1.0
AEGL 2	150	150	120	77	37
AEGL 3	450	450	360	230	110

Level of Distinct Odor Awareness (LOA)= 0.0000087 ppm

75-09-2 Methylene chloride (ppm) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	290	230	200	NR	NR
AEGL 2	1700	1200	560	100	60
AEGL 3	12,000	8,500	6,900	4,900	2,100

75-44-5

\*Phosgene (ppm) 8/28/2010

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	2.3	0.77	0.38	0.096	0.048
AEGL 3	7.8	2.6	1.3	0.33	0.16

NR = Not recommended due to insufficient data

\* Phosgene was reviewed on Sept 9, 2009 and these are newly proposed revised Interim values. Final AEGL values for phosgene (see under Final AEGLs) take precedence over Interim values until Interim values become Final AEGL values.

75-50-3

Trimethyl amine (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	8.0	8.0	8.0	8.0	8.0
AEGL 2	240	150	120	67	51
AEGL 3	750	490	380	220	170

Level of Distinct Odor Awareness = 0.00051 ppm

75-54-7

Methyl dichlorosilane (ppm) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.90	0.90	0.90	0.90	0.90
AEGL 2	50	22	11	5.5	5.5
AEGL 3	280	93	47	12	12

75-77-4

Trimethylchlorosilane (ppm) 10/25/04

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	1.8	1.8	1.8	1.8	1.8
AEGL 2	100	43	22	11	11
AEGL 3	620	210	100	26	26

75-78-5

Dichlorodimethylsilane (ppm) 7/27/00

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.90	0.90	0.90	0.90	0.90
AEGL 2	50	22	11	5.5	5.5
AEGL 3	310	110	50	13	13

75-79-6

Trichloromethyl silane (ppm) 12/10/02

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.60	0.60	0.60	0.60	0.60
AEGL 2	33	14	7.3	3.7	3.7
AEGL 3	210	70	33	8.7	8.7

75-94-5

Vinyltrichlorosilane (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.60	0.60	0.60	0.60	0.60
AEGL 2	33	14	7.3	3.7	3.7
AEGL 3	210	70	33	8.7	8.7

76-06-2

Chloropicrin (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.050	0.050	0.050	0.050	0.050
AEGL 2	0.15	0.15	0.15	0.15	0.15
AEGL 3	2.0	2.0	1.4	0.79	0.58

77-78-1

Dimethyl sulfate (ppm) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.035	0.035	0.024	0.012	0.0087
AEGL 2	0.17	0.17	0.12	0.061	0.043
AEGL 3	4.0	2.3	1.6	0.82	0.58

78-82-0

Isobutyronitrile (ppm) 9/17/03

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	33	23	18	11	7.5
AEGL 3	120	85	68	17	8.5

NR = Not recommended due to insufficient data

78-85-3

Methacrylaldehyde (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.20	0.20	0.20	0.20	0.20
AEGL 2	3.5	3.5	2.8	1.8	1.1
AEGL 3	5.9	5.9	4.7	2.9	1.9

78-94-4

Methyl vinyl ketone (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.17	0.17	0.17	0.17	0.17
AEGL 2	1.5	1.5	1.2	0.76	0.50
AEGL 3	3.1	3.1	2.4	1.5	1.0

78-95-5

Chloroacetone (ppm) 4/14/10

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	8.0	5.5	4.4	1.1	0.53
AEGL 3	24	17	13	3.3	1.6

NR = Not recommended due to insufficient data

79-01-6

Trichloroethylene (ppm) 12/13/04

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	260	180	130	84	77
AEGL 2	960	620	450	270	240
AEGL 3	6,100	6,100	3,800	1,500	970

79-04-9 Chloroacetyl chloride (ppm) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.040	0.040	0.040	0.040	0.040
AEGL 2	2.9	2.0	1.6	0.40	0.20
AEGL 3	95	66	52	13	6.5

79-10-7 Acrylic acid (ppm) 12/10/03

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	1.5	1.5	1.5	1.5	1.5
AEGL 2	68	68	46	21	14
AEGL 3	480	260	180	85	58

NR = Not recommended due to insufficient data

79-22-1 Methyl chloroformate (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	4.0	2.8	2.2	1.4	0.70
AEGL 3	12	8.5	6.7	4.2	2.1

NR = Not recommended due to insufficient data

79-36-7 Dichloroacetyl Chloride (ppm) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.040	0.040	0.040	0.040	0.040
AEGL 2	2.9	2.0	1.6	0.40	0.20
AEGL 3	95	66	52	13	6.5

79-38-9 Trifluorochloroethylene (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	29	20	16	10	10
AEGL 2	160	110	86	54	54
AEGL 3	1500	690	420	150	91

79-41-4

Methacrylic acid (ppm) 12/12/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	6.7	6.7	6.7	6.7	6.7
AEGL 2	76	76	61	38	25
AEGL 3	280	280	220	140	71

80-10-4

Diphenyldichlorosilane (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.90	0.90	0.90	0.90	0.90
AEGL 2	50	22	11	5.5	5.5
AEGL 3	310	110	50	13	13

80-62-6

Methyl methacrylate (ppm) 12/12/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	17	17	17	17	17
AEGL 2	150	150	120	76	50
AEGL 3	720	720	570	360	180

Level of Distinct Odor Awareness (LOA) = 0.11 ppm

92-52-4

Biphenyl (ppm) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	12	12	9.6	6.0	4.4
AEGL 3	NR	NR	NR	NR	NR

NR = Not recommended due to insufficient data

95-63-6

1,2,4-Trimethylbenzene (ppm) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	180	180	140	90	45
AEGL 2	460	460	360	230	150
AEGL 3	NR	NR	NR	NR	NR

\*NR = Not recommended due to lack of data

98-13-5 Phenyltrichlorosilane (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.60	0.60	0.60	0.60	0.60
AEGL 2	33	14	7.3	3.7	3.7
AEGL 3	210	70	33	8.7	8.7

98-82-8 Cumene (ppm) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	50	50	50	50	50
AEGL 2	550	380	300	190	130
AEGL 3	1300	920	730	460	300

Level of Distinct Odor Awareness (LOA) = 0.017 ppm

100-41-4 Ethyl benzene (ppm) 9/21/09

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	33	33	33	33	33
AEGL 2	2900	1600	1100	660	580
AEGL 3	4700	2600	1800	1000	910

100-42-5 Styrene (ppm) 12/12/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	20	20	20	20	20
AEGL 2	230	160	130	130	130
AEGL 3	1,900*	1,900*	1,100*	340	340

Lower Explosive Limit (LEL) = 9,000 ppm

\* =  $\geq$  10% LEL

For values denoted as \* safety considerations against the hazard(s) of explosion(s) must be taken into account.

Level of Distinct Odor Awareness (LOA) = 0.54 ppm

100-47-0 Benzonitrile (ppm) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	39	27	22	11	5.6
AEGL 3	100	71	56	23	11

NR = Not recommended due to insufficient data

103-71-9 Phenyl isocyanate (ppm) 9/21/09

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.020	0.020	0.020	0.020	0.020
AEGL 2	0.18	0.18	0.15	0.092	0.060
AEGL 3	0.30	0.30	0.24	0.15	0.075

106-88-7 1,2-Butylene oxide (ppm) 9/21/09

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	72	72	72	72	72
AEGL 2	140	140	140	140	140
AEGL 3	410	410	330	210	210

Level of Distinct Odor Awareness (LOA) = 0.15 ppm

106-89-8 Epichlorohydrin (ppm) 12/13/04

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	5.7	5.7	5.7	5.7	5.7
AEGL 2	53	53	24	14	10
AEGL 3	570	160	72	44	30

106-93-4 1,2-Dibromoethane (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	52	26	17	7.1	4.6
AEGL 2	73	37	24	10	6.5
AEGL 3	170	76	46	17	10

Level of Distinct Odor Awareness (LOA) = 0.25 ppm

106-97-8

Butane (ppm) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	**see below	6,900*	5,500*	5,500*	5,500*
AEGL 2	***see below	**see below	**see below	**see below	**see below
AEGL 3	***see below	***see below	***see below	***see below	***see below

Lower Explosive Limit (LEL) = 19,000 ppm

\* =  $\geq 10\%$  LEL; \*\* =  $\geq 50\%$  LEL; \*\*\* =  $\geq 100\%$  LEL

AEGL 1 - 10 min = \*\* 10,000 ppm

AEGL 2 - 10 min = \*\*\* 24,000 ppm; 30 min/ 60 min/ 4hr/ 8hr = \*\* 17,000 ppm

AEGL 3 - 10 min = \*\*\* 77,000 ppm; 30 min/ 60 min/ 4hr/ 8hr = \*\*\* 53,000 ppm

For values denoted as \* safety considerations against the hazard(s) of explosion(s) must be taken into account.

For values denoted as \*\* extreme safety considerations against the hazard(s) of explosion(s) must be taken into account

106-99-0

1,3-Butadiene (ppm) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	670	670	670	670	670
AEGL 2	*6700	*6700	*5300	*3400	*2700
AEGL 3	***27,000	***27,000	***22,000	**14,000	*6,800

Lower Explosive Limit (LEL) = 20,000 ppm

\* =  $\geq 10\%$  LEL; \*\* =  $\geq 50\%$  LEL; \*\*\* =  $\geq 100\%$  LEL

AEGL 3 - 4 hr = \*\* 14,000 ppm

For values denoted as \* safety considerations against the hazard(s) of explosion(s) must be taken into account.

For values denoted as \*\* extreme safety considerations against the hazard(s) of explosion(s) must be taken into account

Level of Distinct Odor Awareness = 3.7 ppm

107-05-1

Allyl chloride (ppm) 05/16/08

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	2.8	2.8	2.8	2.8	2.8
AEGL 2	69	69	54	34	22
AEGL 3	180	180	140	90	60

## 107-07-3 Ethylene chlorohydrin (2-Chloroethanol) (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	7.0	5.0	4.0	1.6	0.77
AEGL 3	21	15	12	4.7	2.3

NR = Not recommended due to insufficient data

## 107-12-0 Propionitrile (ppm) 9/17/03

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	9.0	9.0	7.0	2.9	1.4
AEGL 3	46	46	37	23	12

NR = Not recommended due to insufficient data

## 107-13-1 Acrylonitrile (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	4.6	4.6	4.6	4.6	4.6
AEGL 2	290	110	57	16	8.6
AEGL 3	480	180	100	35	19

## 107-14-2 Chloroacetonitrile (ppm) 03/20/07

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	49	49	32	13	8.6
AEGL 3	100	100	67	28	18

NR = Not recommended due to insufficient data

## 107-18-6 Allyl alcohol (ppm) 6/12/01

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	9.3	6.4	5.1	2.2	1.0
AEGL 2	87	27	13	3.1	1.5
AEGL 3	260	82	40	9.3	4.5

107-19-7

Propargyl alcohol (ppm) 10/19/07

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	2.5	2.5	2.5	2.5	2.5
AEGL 2	20	20	16	10	6.6
AEGL 3	130	93	74	29	15

107-20-0

Chloroacetaldehyde (ppm) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	2.3	2.3	1.3	0.40	0.22
AEGL 2	9.8	3.9	2.2	0.69	0.39
AEGL 3	44	18	9.9	3.1	1.8

107-30-2

Chloromethyl methyl ether (ppm) 10/23/00

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.60	0.60	0.47	0.30	0.22
AEGL 3	2.6	2.6	2.0	1.3	0.93

NR = Not recommended due to insufficient data

107-37-9

Allyltrichlorosilane (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.60	0.60	0.60	0.60	0.60
AEGL 2	33	14	7.3	3.7	3.7
AEGL 3	210	70	33	8.7	8.7

107-72-2

Amyltrichlorosilane (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.60	0.60	0.60	0.60	0.60
AEGL 2	33	14	7.3	3.7	3.7
AEGL 3	210	70	33	8.7	8.7

108-05-4 Vinyl acetate (ppm) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	6.7	6.7	6.7	6.7	6.7
AEGL 2	230	230	180	110	75
AEGL 3	760	760	610	380	250

108-23-6 Isopropyl chloroformate (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	6.0	4.3	3.3	0.83	0.43
AEGL 3	18	13	10	2.5	1.3

NR = Not recommended due to insufficient data

108-67-8 1,3,5-Trimethylbenzene (Mesitylene) (ppm) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	180	180	140	90	45
AEGL 2	460	460	360	230	150
AEGL 3	NR	NR	NR	NR	NR

\*NR = Not recommended due to lack of data

108-88-3 Toluene (ppm) 12/10/02

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	200	200	200	200	200
AEGL 2	3,100	1,600*	1,200*	790	650
AEGL 3	** see below	6,100*	4,500*	3,000*	2,500*

Lower Explosive Limit (LEL) = 11,000 ppm

\* =  $\geq 10\%$  LEL; \*\* =  $\geq 50\%$  LEL

AEGL 3 - 10 min = \*\* 13,000 ppm

For values denoted as \* safety considerations against the hazard(s) of explosion(s) must be taken into account.

For values denoted as \*\* extreme safety considerations against the hazard(s) of explosion(s) must be taken into account

108-90-7

Chlorobenzene (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	10	10	10	10	10
AEGL 2	430	300	150	150	150
AEGL 3	1100	800	400	400	400

108-98-5

Phenyl mercaptan (ppm) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	1.0	0.70	0.53	0.33	0.17
AEGL 3	3.0	2.1	1.6	1.0	0.52

\*NR = Not recommended due to lack of data

109-61-5

Propyl chloroformate (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	6.7	4.7	3.7	0.90	0.47
AEGL 3	20	14	11	2.7	1.4

NR = Not recommended due to insufficient data

109-77-3

Malononitrile (ppm) 3/20/07

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	7.5	7.5	4.9	2.0	1.3
AEGL 3	15	15	10	4.3	2.8

NR = Not recommended due to insufficient data

109-90-0

Ethyl isocyanate (ppm) 9/21/09

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.070	0.070	0.053	0.033	0.023
AEGL 3	0.21	0.21	0.16	0.10	0.068

NR = Not recommended due to insufficient data

110-54-3

Hexane (ppm) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	*4800	*3300	*3300	*3300	*3300
AEGL 3	***see below	**see below	**see below	**see below	**see below

Lower Explosive Limit (LEL) = 11,000 ppm

\* =  $\geq 10\%$  LEL; \*\* =  $\geq 50\%$  LEL; \*\*\* =  $\geq 100\%$  LEL

AEGL 3 - 10 min = \*\*\*12,000 ppm; 30 min, 1 hr, 4 hr, and 8 hr = \*\*8,600

For values denoted as \* safety considerations against the hazard(s) of explosion(s) must be taken into account.

For values denoted as \*\* and \*\*\* extreme safety considerations against the hazard(s) of explosion(s) must be taken into account

NR = Not recommended due to insufficient data

110-89-4

Piperidine (ppm) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	10	10	6.6	2.6	1.7
AEGL 2	50	50	33	13	8.3
AEGL 3	370	180	110	45	28

Level of Distinct Odor Awareness (LOA) = 5.8 ppm

111-36-4

n-Butyl isocyanate (ppm) 9/21/09

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.013	0.013	0.013	0.013	0.013
AEGL 2	0.023	0.023	0.023	0.023	0.023
AEGL 3	0.31	0.31	0.25	0.15	0.080

112-04-9

Octadecyltrichlorosilane (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.60	0.60	0.60	0.60	0.60
AEGL 2	33	14	7.3	3.7	3.7
AEGL 3	210	70	33	8.7	8.7

115-21-9 Ethyltrichlorosilane (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.60	0.60	0.60	0.60	0.60
AEGL 2	33	14	7.3	3.7	3.7
AEGL 3	210	70	33	8.7	8.7

116-14-3 Tetrafluoroethylene (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	270	270	220	140	90
AEGL 2	690	690	550	340	230
AEGL 3	4200	4200	3300	2100	1000

116-15-4 Hexafluoropropylene (ppm) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	150	67	40	14	8.3
AEGL 2	350	150	91	32	19
AEGL 3	1800	800	480	170	100

121-45-9 Trimethyl phosphite (ppm) 8/28/2010

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	11	7.6	6.1	3.8	2.5
AEGL 2	110	77	61	38	25
AEGL 3	560	390	310	160	81

121-75-5 Malathion (mg/m<sup>3</sup>) 9/21/09

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	15	15	15	15	15
AEGL 2	150	150	120	77	50
AEGL 3	500	500	390	250	140

123-38-6 Propionaldehyde (ppm) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	45	45	45	45	45
AEGL 2	330	330	260	170	110
AEGL 3	1,100	1,100	840	530	260

Level of Distinct Odor Awareness = 0.64 ppm

123-91-1 1,4-Dioxane (ppm) 10/25/04

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	17	17	17	17	17
AEGL 2	580	400	320	200	100
AEGL 3	950	950	760	480	240

Level of Distinct Odor Awareness (LOA) = 1.7 ppm

124-40-3 Dimethylamine (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	10	10	10	10	10
AEGL 2	130	85	66	40	32
AEGL 3	480	320	250	150	120

Level of Distinct Odor Awareness = 0.53 ppm

124-63-0 Methanesulfonyl chloride (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	4.0	4.0	2.1	0.53	0.26
AEGL 3	12	12	6.2	1.6	0.78

NR = Not recommended due to insufficient data

124-70-9 Methylvinylchlorosilane (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.90	0.90	0.90	0.90	0.90
AEGL 2	50	22	11	5.5	5.5
AEGL 3	310	110	50	13	13

126-98-7 Methacrylonitrile (ppm) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	2.0	2.0	1.0	1.0	1.0
AEGL 2	16	16	13	6.5	6.5
AEGL 3	32	32	25	13	13

127-18-4 Tetrachloroethylene (ppm) 6/12/01

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	35	35	35	35	35
AEGL 2	230	230	230	120	81
AEGL 3	1,600	1,600	1,200	580	410

140-88-5 Ethyl acrylate (ppm) 12/12/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	8.3	8.3	8.3	8.3	8.3
AEGL 2	66	45	36	19	9.4
AEGL 3	950	410	240	71	41

141-32-2 n-Butyl acrylate (ppm) 12/12/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	8.3	8.3	8.3	8.3	8.3
AEGL 2	160	160	130	81	53
AEGL 3	820	820	480	170	97

141-57-1 Propyltrichlorosilane (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.60	0.60	0.60	0.60	0.60
AEGL 2	33	14	7.3	3.7	3.7
AEGL 3	210	70	33	8.7	8.7

141-59-3

t-Octyl mercaptan (ppm) 9/21/09

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.77	0.77	0.60	0.40	0.19
AEGL 3	2.3	2.3	1.8	1.2	0.58

NR = Not recommended due to insufficient data

143-33-9

Sodium cyanide (mg/m<sup>3</sup>) 8/28/2010

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	5.0	5.0	4.0	2.6	2.0
AEGL 2	34	20	14	7.0	5.0
AEGL 3	54	42	30	17	13

151-50-8

Potassium cyanide (mg/m<sup>3</sup>) 8/28/2010

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	6.6	6.6	5.3	3.5	2.7
AEGL 2	45	27	19	9.3	6.6
AEGL 3	72	56	40	23	18

298-00-0

Methyl parathion (mg/m<sup>3</sup>) 9/21/09

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	2.1	1.5	1.2	0.73	0.37
AEGL 3	6.4	4.4	3.5	2.2	1.1

NR = Not recommended due to insufficient data

298-02-2

Phorate (mg/m<sup>3</sup>) 9/21/09

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.073	0.050	0.040	0.010	0.0050
AEGL 3	0.22	0.15	0.12	0.031	0.015

NR = Not recommended due to insufficient data

353-50-4 Carbonyl fluoride (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.35	0.35	0.28	0.17	0.087
AEGL 3	1.0	1.0	0.83	0.52	0.26

NR = Not recommended due to insufficient data

382-21-8 Perfluoroisobutylene (ppm) 8/28/2010

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.67	0.22	0.11	0.028	0.014
AEGL 3	2.0	0.67	0.33	0.083	0.042

NR = Not recommended due to insufficient data

460-19-5 Cyanogen (ppm) 9/21/09

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	2.5	2.5	2.0	1.3	1.0
AEGL 2	50	17	8.3	4.3	4.3
AEGL 3	150	50	25	13	13

463-51-4 Ketene (ppm) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.24	0.24	0.19	0.12	0.088
AEGL 2	0.83	0.83	0.66	0.42	0.23
AEGL 3	2.5	2.5	2.0	1.2	0.68

463-58-1 Carbonyl sulfide (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	69	69	55	34	23
AEGL 3	190	190	150	95	48

NR = Not recommended due to lack of warning properties

501-53-1 Benzyl chloroformate (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	1.2	1.2	0.97	0.63	0.31
AEGL 3	3.7	3.7	2.9	1.9	0.93

NR = Not recommended due to insufficient data

526-73-8

1,2,3-Trimethylbenzene (ppm) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	180	180	140	90	45
AEGL 2	460	460	360	230	150
AEGL 3	NR	NR	NR	NR	NR

\*NR = Not recommended due to lack of data

538-07-8

Nitrogen Mustard-1 (mg/m<sup>3</sup>) 10/19/07

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.13	0.044	0.022	0.0056	0.0028
AEGL 3	2.2	0.74	0.37	0.093	0.047

NR = Not recommended due to insufficient data

541-25-3 Lewisite 1 (mg/m<sup>3</sup>) (including mixtures with Lewisite 2 CAS #40334-69-8 and Lewisite 3 CAS #40334-70-1) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.65	0.23	0.12	0.035	0.018
AEGL 3	3.9	1.4	0.74	0.21	0.11

NR = Not recommended due to insufficient data

541-41-3 Ethyl chloroformate (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	2.9	2.0	1.6	0.40	0.20
AEGL 3	8.8	6.1	4.8	1.2	0.60

NR = Not recommended due to insufficient data

542-88-1 Bis (chloromethyl) ether (ppm) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.055	0.055	0.044	0.028	0.020
AEGL 3	0.23	0.23	0.18	0.11	0.075

NR = Not recommended due to insufficient data

543-27-1 Isobutyl chloroformate (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	4.0	2.8	2.2	0.57	0.28
AEGL 3	12	8.4	6.7	1.7	0.83

NR = Not recommended due to insufficient data

555-77-1 Nitrogen Mustard-3 (mg/m<sup>3</sup>) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.13	0.044	0.022	0.0056	0.0028
AEGL 3	2.2	0.74	0.37	0.093	0.047

NR = Not recommended due to insufficient data

556-61-6 Methyl isothiocyanate (ppm) 4/14/10

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.80	0.80	0.80	0.80	0.80
AEGL 2	43	29	23	9.0	4.3
AEGL 3	130	88	70	27	13

578-94-9

Adamsite (mg/m<sup>3</sup>) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.20	0.041	0.016	0.0022	0.00083
AEGL 2	9.7	6.8	2.6	0.36	0.14
AEGL 3	21	17	6.4	0.91	0.34

592-01-8

Calcium cyanide (mg/m<sup>3</sup>) 8/28/2010

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	4.7	4.7	3.8	2.4	1.9
AEGL 2	32	19	13	6.6	4.7
AEGL 3	51	39	28	16	12

592-34-7

n-Butyl chloroformate (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	4.0	2.8	2.2	0.57	0.28
AEGL 3	12	8.4	6.7	1.7	0.83

NR = Not recommended due to insufficient data

593-89-5

Methyldichloroarsine (mg/m<sup>3</sup>) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.63	0.14	0.053	0.015	0.0063
AEGL 3	1.9	0.42	0.16	0.044	0.019

NR = Not recommended due to insufficient data

598-14-1

Ethyldichloroarsine (mg/m<sup>3</sup>) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.17	0.058	0.029	NR	NR
AEGL 3	0.52	0.17	0.086	NR	NR

NR = Not recommended due to insufficient data

598-31-2

Bromoacetone (ppm) 9/21/09

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.011	0.011	0.011	0.011	0.011
AEGL 2	1.4	0.57	0.33	0.11	0.063
AEGL 3	4.1	1.7	0.98	0.32	0.19

674-82-8

Diketene (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	11	7.7	6.0	1.5	0.77
AEGL 3	33	23	18	4.5	2.3

NR = Not recommended due to insufficient data

681-84-5

Tetramethoxy silane (ppm) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	1.1	1.1	0.91	0.57	0.38
AEGL 3	1.7	1.7	1.4	0.87	0.43

NR = Not recommended due to insufficient data

684-16-2

Hexafluoroacetone (ppm) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.40	0.40	0.20	0.050	0.025
AEGL 3	160	160	80	20	10

NR = Not recommended due to insufficient data

696-28-6

Phenyl dichloroarsine (mg/m<sup>3</sup>) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.37	0.12	0.061	NR	NR
AEGL 3	1.1	0.37	0.18	NR	NR

NR = Not recommended due to insufficient data

712-48-1 Diphenylchloroarsine (mg/m<sup>3</sup>) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	1.1	0.79	0.39	0.098	0.049
AEGL 3	3.4	2.4	1.2	0.30	0.15

NR = Not recommended due to insufficient data

## 868-85-9 Dimethyl phosphite (ppm) 8/28/2010

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	120	120	95	60	39
AEGL 3	190	190	150	96	63

NR = Not recommended due to insufficient data

## 928-65-4 Hexyltrichlorosilane (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.60	0.60	0.60	0.60	0.60
AEGL 2	33	14	7.3	3.7	3.7
AEGL 3	210	70	33	8.7	8.7

## 993-00-0 Methyl chlorosilane (ppm) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	1.8	1.8	1.8	1.8	1.8
AEGL 2	100	43	22	11	11
AEGL 3	620	210	100	26	26

## 1066-35-9 Dimethylchlorosilane (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	1.8	1.8	1.8	1.8	1.8
AEGL 2	100	43	22	11	11
AEGL 3	620	210	100	26	26

1327-53-3

Arsenic trioxide (mg/m<sup>3</sup>) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	3.7	3.7	3.0	1.9	1.2
AEGL 3	11	11	9.1	5.7	3.7

NR = Not recommended due to insufficient data

1498-51-7

Ethylphosphorodichloridate (ppm) 9/21/09

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	1.1	0.76	0.60	0.38	0.19
AEGL 3	11	7.6	6.0	3.8	1.9

1558-25-4

Chloromethyltrichlorosilane (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.60	0.60	0.60	0.60	0.60
AEGL 2	33	14	7.3	3.7	3.7
AEGL 3	210	70	33	8.7	8.7

1634-04-4

Methyl-tertiary-butyl ether (MTBE) (ppm) 12/5/07

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	50	50	50	50	50
AEGL 2	1400	800	570	400	400
AEGL 3	**	*7500	*5300	*2700	*1900

Lower Explosive Limit (LEL) = (16,000)

\* =  $\geq 10\%$  LEL

\*\* =  $\geq 50\%$  LEL

NR = Not recommended due to insufficient data

AEGL 3 - 10 min = \*\* 13,000 ppm

For values denoted as \* safety considerations against the hazard(s) of explosion(s) must be taken into account.

For values denoted as \*\* extreme safety considerations

1719-53-5 Diethyldichlorosilane (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.90	0.90	0.90	0.90	0.90
AEGL 2	50	22	11	5.5	5.5
AEGL 3	310	110	50	13	13

1794-86-1 Phosgene oxime (mg/m<sup>3</sup>) 8/28/2010

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.17	0.056	0.028	0.0069	0.0035
AEGL 2	0.50	0.17	0.083	0.021	0.010
AEGL 3	36	25	13	3.1	1.6

1885-14-9 Phenyl chloroformate (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.24	0.24	0.19	0.12	0.060
AEGL 3	0.72	0.72	0.57	0.36	0.18

NR = Not recommended due to insufficient data

2487-90-3 Trimethoxysilane (ppm) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	2.9	1.4	0.83	0.33	0.20
AEGL 3	8.8	4.1	2.5	0.98	0.61

NR = Not recommended due to insufficient data

2698-41-1 Tear Gas (mg/m<sup>3</sup>) 9/21/09

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.050	0.050	0.050	0.050	0.050
AEGL 2	0.50	0.50	0.50	0.50	0.50
AEGL 3	140	29	11	1.5	1.5

2699-79-8 Sulfuryl fluoride (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	27	27	21	13	6.7
AEGL 3	81	81	64	40	20

NR = Not recommended due to insufficient data

2937-50-0 Allyl chloroformate (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	1.3	0.87	0.70	0.18	0.090
AEGL 3	3.8	2.6	2.1	0.53	0.26

NR = Not recommended due to insufficient data

2941-64-2 Ethylchlorothioformate (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.33	0.33	0.26	0.17	0.083
AEGL 3	1.0	1.0	0.79	0.50	0.25

NR = Not recommended due to insufficient data

3173-53-3 Cyclohexyl isocyanate (ppm) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	NR	NR	NR	NR	NR
AEGL 3	0.13	0.13	0.10	0.064	0.042

NR = Not recommended due to insufficient data

3282-30-2

Trimethylacetyl chloride (ppm) 9/21/09

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.67	0.67	0.53	0.33	0.22
AEGL 3	2.0	2.0	1.6	0.99	0.65

NR = Not recommended due to insufficient data

4109-96-0

Dichlorosilane (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.90	0.90	0.90	0.90	0.90
AEGL 2	50	22	11	5.5	5.5
AEGL 3	310	110	50	13	13

4484-72-4

Dodecyltrichlorosilane (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.60	0.60	0.60	0.60	0.60
AEGL 2	33	14	7.3	3.7	3.7
AEGL 3	210	70	33	8.7	8.7

5283-66-9

Octyltrichlorosilane (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.60	0.60	0.60	0.60	0.60
AEGL 2	33	14	7.3	3.7	3.7
AEGL 3	210	70	33	8.7	8.7

5283-67-0

Nonyltrichlorosilane (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.60	0.60	0.60	0.60	0.60
AEGL 2	33	14	7.3	3.7	3.7
AEGL 3	210	70	33	8.7	8.7

6581-06-2

BZ (mg/m<sup>3</sup>) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.20	0.067	0.033	NR	NR
AEGL 3	3.7	1.2	0.62	NR	NR

7439-97-6

Mercury Vapor (mg/m<sup>3</sup>) 8/28/2010

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	3.1	2.1	1.7	0.67	0.33
AEGL 3	16	11	8.9	2.2	2.2

7440-43-9

Cadmium (mg/m<sup>3</sup>) 8/28/2010

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.13	0.13	0.10	0.063	0.041
AEGL 2	1.4	0.96	0.76	0.40	0.20
AEGL 3	8.5	5.9	4.7	1.9	0.93

7446-11-9

Sulfur trioxide (mg/m<sup>3</sup>) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.20	0.20	0.20	0.20	0.20
AEGL 2	8.7	8.7	8.7	8.7	8.7
AEGL 3	270	200	160	110	93

7521-80-4

Butyltrichlorosilane (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.60	0.60	0.60	0.60	0.60
AEGL 2	33	14	7.3	3.7	3.7
AEGL 3	210	70	33	8.7	8.7

7550-45-0 Titanium tetrachloride (ppm) 12/12/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.070	0.070	0.070	0.070	0.070
AEGL 2	7.6	2.2	1.0	0.21	0.094
AEGL 3	38	13	5.7	2.0	0.91

7616-94-6 Perchloryl fluoride (ppm) 8/28/2010

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	1.8	1.8	1.5	0.92	0.60
AEGL 2	5.0	5.0	4.0	2.5	1.2
AEGL 3	15	15	12	7.5	3.7

7637-07-2 Boron trifluoride (mg/m<sup>3</sup>) 6/18/03

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	2.5	2.5	2.5	2.5	2.5
AEGL 2	37	37	29	18	9.3
AEGL 3	110	110	88	55	28

7664-93-9 Sulfuric acid (mg/m<sup>3</sup>) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.20	0.20	0.20	0.20	0.20
AEGL 2	8.7	8.7	8.7	8.7	8.7
AEGL 3	270	200	160	110	93

7697-37-2 Nitric Acid (ppm) 10/25/04

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.53	0.53	0.53	0.53	0.53
AEGL 2	43	30	24	6.0	3.0
AEGL 3	170	120	92	23	11

7719-09-7 Thionyl chloride (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	4.3	3.0	2.4	0.59	0.30
AEGL 3	25	17	14	3.4	1.7

NR = Not recommended due to insufficient data

7783-07-5 Hydrogen selenide (ppm) 4/14/10

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.66	0.44	0.33	0.20	0.15
AEGL 3	2.2	1.4	1.1	0.65	0.49

NR = Not recommended due to insufficient data

7783-41-7 Oxygen difluoride (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	4.3	1.6	0.83	0.24	0.13
AEGL 3	13	4.7	2.5	0.71	0.38

NR = Not recommended due to insufficient data

7783-54-2 Nitrogen trifluoride (ppm) 9/21/09

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	1200	400	200	50	25
AEGL 2	3100	1100	530	140	68
AEGL 3	5000	1700	860	220	110

7783-61-1 Silicon tetrafluoride (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.05	0.05	0.05	0.05	0.05
AEGL 2	6.3	4.3	3.3	0.87	0.43
AEGL 3	19	13	10	2.6	1.3

7783-79-1 Selenium hexafluoride (ppm) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.67	0.67	0.053	0.033	0.017
AEGL 2	0.11	0.11	0.087	0.057	0.028
AEGL 3	0.33	0.33	0.26	0.17	0.083

7783-80-4 Tellurium hexafluoride (ppm) 8/28/2010

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.032	0.022	0.018	0.011	0.0057
AEGL 3	0.096	0.067	0.053	0.033	0.017

NR = Not recommended due to insufficient data

7787-71-5 Bromine trifluoride (ppm) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.12	0.12	0.12	0.12	0.12
AEGL 2	8.1	3.5	2.0	0.70	0.41
AEGL 3	84	36	21	7.3	7.3

7789-30-2 Bromine pentafluoride (ppm) 4/14/10

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	3.0	2.0	1.0	0.48	0.33
AEGL 3	79	55	33	8.3	4.2

NR = Not recommended due to insufficient data

7790-94-5 Chlorosulfonic acid (mg/m<sup>3</sup>) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.10	0.10	0.10	0.10	0.10
AEGL 2	4.4	4.4	4.4	4.4	4.4
AEGL 3	45	31	25	6.1	6.1

7803-52-3

Stibine (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	4.2	2.9	1.5	0.36	0.18
AEGL 3	28	19	9.6	2.4	1.2

NR = Not recommended due to insufficient data

7803-62-5

Silane (ppm) 10/19/2007

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	100	100	100	NR	NR
AEGL 2	170	170	130	80	42
AEGL 3	300	300	270	170	80

NR = Not recommended due to insufficient data

8014-95-7

Oleum (mg/m<sup>3</sup>) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.20	0.20	0.20	0.20	0.20
AEGL 2	8.7	8.7	8.7	8.7	8.7
AEGL 3	270	200	160	110	93

10025-67-9

Disulfur dichloride (ppm) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.67	0.67	0.53	0.33	0.17
AEGL 2	8.1	8.1	6.4	4.0	2.0
AEGL 3	19	19	15	9.6	4.8

10025-78-2

Trichlorosilane (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.60	0.60	0.60	0.60	0.60
AEGL 2	33	14	7.3	3.7	3.7
AEGL 3	210	70	33	8.7	8.7

10026-04-7 Silicon tetrachloride (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.45	0.45	0.45	0.45	0.45
AEGL 2	25	11	5.5	2.8	2.8
AEGL 3	160	53	25	6.5	6.5

10034-85-2 \* Hydrogen Iodide (ppm) 4/14/10

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	1.0	1.0	1.0	1.0	1.0
AEGL 2	150	50	25	13	13
AEGL 3	740	250	120	31	31

\* Values based on Hydrogen Bromide (insufficient information for HI)

10035-10-6 Hydrogen Bromide (ppm) 4/14/10

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	1	1	1	1	1
AEGL 2	150	50	25	13	13
AEGL 3	740	250	120	31	31

10102-43-9 \* Nitric oxide (ppm) 12/13/04

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	NR	NR	NR	NR	NR
AEGL 3	NR	NR	NR	NR	NR

NR = Not recommended; AEGL values for nitrogen dioxide should be used for emergency planning; Short-term exposures to below 80 ppm NO should not constitute a health hazard

10102-44-0 \* Nitrogen dioxide (ppm) 12/13/04

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.50	0.50	0.50	0.50	0.50
AEGL 2	20	15	12	8.2	6.7
AEGL 3	34	25	20	14	11

\* Some effects may be delayed

## 10294-33-4 Boron tribromide (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.33	0.33	0.33	0.33	0.33
AEGL 2	33	14	7.3	3.7	3.7
AEGL 3	250	83	40	10	10

10544-72-6 Nitrogen Tetroxide mg/m<sup>3</sup> (ppm) 9/21/09

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.25 (0.94)	0.25 (0.94)	0.25 (0.94)	0.25 (0.94)	0.25 (0.94)
AEGL 2	10 (38)	7.6 (28)	6.2 (23)	4.1 (15)	3.5 (13)
AEGL 3	17 (64)	13 (47)	10 (38)	7.0 (26)	5.7 (21)

## 13637-63-3 Chlorine pentafluoride (ppm) 11/13/06

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.30	0.30	0.30	NR	NR
AEGL 2	3.0	2.0	1.0	0.48	0.33
AEGL 3	21	12	8.0	3.9	2.7

NR = Not Recommended due to inadequate data

## 13863-41-7 Bromine chloride (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.50	0.50	0.50	0.50	0.50
AEGL 2	3.2	3.2	2.5	1.6	1.2
AEGL 3	9.5	9.5	7.6	4.8	3.5

## 17462-58-7 sec-Butyl chloroformate (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	4.0	2.8	2.2	0.57	0.28
AEGL 3	12	8.4	6.7	1.7	0.83

19624-22-7

Pentaborane (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.56	0.24	0.14	0.048	0.028
AEGL 3	2.8	1.2	0.70	0.24	0.14

NR = Not recommended due to insufficient data

20816-12-0

Osmium tetroxide (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.015	0.011	0.0084	0.0033	0.0017
AEGL 3	5.0	5.0	4.0	2.5	2.0

NR = Not recommended due to insufficient data

24468-13-1

2-Ethylhexylchloroformate (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	1.2	1.2	0.97	0.60	0.30
AEGL 3	3.6	3.6	2.9	1.8	0.91

NR = Not recommended due to insufficient data

27137-85-5

Dichlorophenyltrichlorosilane (ppm) (May 16, 2008)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.60	0.60	0.60	0.60	0.60
AEGL 2	33	14	7.3	3.7	3.7
AEGL 3	210	70	33	8.7	8.7

## Proposed AEGLs (12)

Proposed AEGLs are published in the Federal Register for public comment following review and concurrence of Draft AEGLs by the NAC/AEGL.

62-73-7

Dichlorvos (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	0.11	0.11	0.11	0.11	0.11
AEGL 2	0.56	0.56	0.56	0.56	0.56
AEGL 3	8.0	8.0	8.0	8.0	8.0

74-88-4

Methyl iodide (ppm)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	54	31	22	11	11
AEGL 2	200	120	82	41	29
AEGL 3	670	400	290	150	98

116-06-3

Aldicarb (mg/m<sup>3</sup>)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.16	0.11	0.087	0.053	0.027
AEGL 3	0.47	0.32	0.26	0.16	0.081

141-66-2

Dicrotophos (mg/m<sup>3</sup>)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.53	0.37	0.29	0.073	0.037
AEGL 3	1.6	1.1	0.88	0.22	0.11

NR = Not recommended due to insufficient data

6923-22-4

Monocrotophos (mg/m<sup>3</sup>)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.43	0.31	0.24	0.21	0.10
AEGL 3	1.3	0.92	0.73	0.62	0.31

NR = Not recommended due to insufficient data

7723-14-0

Red Phosphorus (mg/m<sup>3</sup>)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	6.7	4.7	3.7	0.93	0.47
AEGL 2	20	14	11	2.8	1.4
AEGL 3	85	59	47	12	5.9

8006-61-9

Automotive Gasoline (unleaded) (mg/m<sup>3</sup>)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	730	730	730	730	730
AEGL 2	*7500	*7500	*7500	*7500	*7500
AEGL 3	ND	ND	ND	ND	ND

ND = Not determined under normal exposure scenarios

Lower Explosive Limit (LEL) = 11,000 ppm

\* ≥10% LEL; \*\* ≥50% LEL; \*\*\* ≥100% LEL

AEGL 2 is higher than 1/10 of the Lower Exposure Limit (LEL = 62,000 mg/m<sup>3</sup>)

For values denoted as \* safety considerations against the hazard(s) of explosion(s) must be taken into account.

10265-92-6

Methamidophos (mg/m<sup>3</sup>)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	2.4	2.4	1.9	1.2	0.61
AEGL 2	4.5	4.5	3.6	2.3	1.1
AEGL 3	10	10	8.1	5.1	2.5

13171-21-6

Phosphamidon (mg/m<sup>3</sup>)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	0.37	0.37	0.30	0.19	0.093
AEGL 3	1.1	1.1	0.90	0.57	0.28

NR = Not recommended due to insufficient data

16752-77-5

Methomyl (mg/m<sup>3</sup>)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	7	7	5.7	3.3	1.7
AEGL 3	21	21	17	10	5.2

NR = Not recommended due to insufficient data

22224-92-6

Fenamiphos (mg/m<sup>3</sup>)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	1.0	0.80	0.70	0.53	0.43
AEGL 3	3.0	2.4	2.1	1.6	1.3

NR = Not recommended due to insufficient data

23135-22-0

Oxamyl (mg/m<sup>3</sup>)

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	3.6	1.8	1.2	0.49	0.32
AEGL 2	5.3	2.7	1.8	0.73	0.47
AEGL 3	16	8.2	5.3	2.2	1.4

## Holding AEGs (46)

Holding Status AEGs have been reviewed by the NAC/AEGL Committee and are under further review. At this time values are not being developed.

CAS Number	Chemical Name
	Fluoroacetate salts
62-74-7	Sodium fluoroacetate
75-36-5	Acetyl Chloride
75-74-1	Tetramethyl lead
76-02-8	Trichloroacetyl Chloride
77-10-0	Phencyclidine
80-12-6	Tetramethylene disulfotetramine
80-63-7	Methyl 2-chloroacrylate
97-02-9	2,4-Dinitroaniline
107-49-3	Tetraethyl pyrophosphate
110-78-1	n-Propyl isocyanate
144-49-0	Monofluoroacetic acid
151-38-2	Methoxyethyl mercuric acetate
371-62-0	Ethylene fluorohydrin
453-18-9	Methyl fluoroacetate
463-71-8	Thiophosgene
503-38-8	Diphosgene
506-77-4	Cyanogen chloride
556-64-9	Methyl thiocyanate
561-27-3	Diacetyl morphine
814-68-6	Acrylyl chloride
950-35-6	Methyl paroxon
993-43-1	Ethyl phosphonothioic dichloride
1303-28-2	Arsenic pentoxide
1498-40-4	Ethyl phosphonous dichloride
1609-86-5	t-Butyl isocyanate
1737-93-5	3,5-Dichloro-2,4,6-trifluoropyridine
1795-48-8	Isopropyl isocyanate
1873-29-6	Isobutyl isocyanate
2696-92-6	Nitrosyl chloride
354-32-5	Trifluoroacetyl chloride
4300-97-4	Chloropivaloyl chloride

CAS Number	Chemical Name
4685-14-7	Paraquat
6427-21-0	Methoxymethyl isocyanate
7775-14-6	Sodium dithionite
7783-60-0	Sulfur tetrafluoride
7783-82-6	Tungsten hexafluoride
7784-34-1	Arsenic trichloride
7786-34-7	Mevinphos (mg/m <sup>3</sup> )
7789-21-1	Fluorosulfonic acid
7803-49-8	Hydroxylamine
7803-54-5	Magnesium diamide
10294-34-5	Boron Trichloride
10544-73-7	Nitrogen trioxide
10545-99-0	Sulfur dichloride

9009-86-3

Ricin (mg/m<sup>3</sup>)\*

	10 min	30 min	60 min	4 hr	8 hr
AEGL 1	NR	NR	NR	NR	NR
AEGL 2	NR	NR	NR	NR	NR
AEGL 3	0.033	0.010	0.0048	NR	NR

\* Tentative Ricin values pending receipt and review of data for April 13-15 2010 NAC/AEGL Meeting