Current AIHA ERPGs (2005)

Chemical (CAS Number)	ERPG–1	ERPG–2	ERPG–3
Acetaldehyde (75-07-0)	10 ppm	200 ppm	1000 ppm
Acetic Acid (64-19-7)	5 ppm	35 ppm	250 ppm
Acrolein (107-02-8)	0.1 ppm	0.5 ppm	3 ppm
Acrylic Acid (79-10-7)	2 ppm	50 ppm	750 ppm
Acrylonitrile (107-13-1)	10 ppm	35 ppm	75 ppm
Allyl Chloride (107-05-1)	3 ppm	40 ppm	300 ppm
Ammonia (7664-41-7)	25 ppm	150 ppm	750 ppm
Arsine (7784-42-1)	NA†	0.5 ppm	1.5 ppm
Benzene (71-43-2)	50 ppm	150 ppm	1000 ppm
Benzyl Chloride (100-44-7)	1 ppm	10 ppm	25 ppm
Beryllium (7440-41-7)	NA†	25 µg/m^3	100 µg/m^3
Bis (Chloromethyl) Ether (542-88-1)	ID‡	0.1 ppm	0.5 ppm
Boron Trifluoride (7637-07-2)	2 mg/m^3	30 mg/m^3	100 mg/m^3
Bromine (7726-95-6)	0.1 ppm	0.5 ppm	5 ppm
1,3-Butadiene (106-99-0)	10 ppm	200 ppm	5000 ppm
n-Butyl Acetate (123-86-4)	5 ppm	200 ppm	3000 ppm
n-Butyl Acrylate* (141-32-2)	**0.05 ppm**	**25 ppm**	**250 ppm**
n-Butyl Isocyanate (111-36-4)	0.01 ppm	0.05 ppm	1 ppm
Carbon Disulfide (75-15-0)	1 ppm	50 ppm	500 ppm
Carbon Monoxide (630-08-0)	200 ppm	350 ppm	500 ppm
Carbon Tetrachloride (56-23-5)	20 ppm	100 ppm	750 ppm
Chlorine (7782-50-5)	1 ppm	3 ppm	20 ppm
Chlorine Dioxide (10049-04-4)	NA†	0.5 ppm	3 ppm
Chlorine Trifluoride* (7790-91-2)	**0.1 ppm**	**1 ppm**	**10 ppm**
1-Chloro-1,1-Difluoroethane (HCFC-142b) (75-68-3)	10,000 ppm	15,000 ppm	25,000 ppm
Chloroacetyl Chloride (79-04-9)	0.05 ppm	0.5 ppm	10 ppm
Chloroform (67-66-3)	NA†	50 ppm	5000 ppm
Chloromethyl Methyl Ether (107-30-2)	NA†	1.0 ppm	10 ppm
Chloropicrin (76-06-2)	0.1 ppm	0.3 ppm	1.5 ppm
Chlorosulfonic Acid* (7790-94-5)	2 mg/m^3	10 mg/m^3	30 mg/m^3
Chlorotrifluoroethylene (79-38-9)	20 ppm	100 ppm	300 ppm
Cobalt Hydrocarbonyl (16842-03-8)	**ID‡**	**0.13 ppm**	**0.42 ppm**
Crotonaldehyde (4170-30-3)	2 ppm	10 ppm	50 ppm
Cyanogen Chloride (506-77-4)	NA†	0.4 ppm	4 ppm
Diborane (19287-45-7)	NA†	1 ppm	3 ppm
1,2-Dichloroethane (107-06-2)	50 ppm	200 ppm	300 ppm
Diketene (674-82-8)	1 ppm	5 ppm	20 ppm
Dimethylamine (124-40-3)	0.6 ppm	100 ppm	350 ppm
Dimethyldichlorosilane (75-78-5)	2 ppm	10 ppm	75 ppm

Chemical (CAS Number)	ERPG–1	ERPG–2	ERPG–3
Dimethyl Disulfide (624-92-0)	0.01 ppm	50 ppm	250 ppm
Dimethylformamide (68-12-2)	2 ppm	100 ppm	200 ppm
Dimethyl Sulfide (75-18-3)	0.5 ppm	1000 ppm	5000 ppm
Epichlorohydrin (106-89-8)	2 ppm	20 ppm	100 ppm
Ethyl Acrylate (140-88-5)	0.01 ppm	30 ppm	300 ppm
Ethylene Oxide* (75-21-8)	**NA†**	**50 ppm**	**500 ppm**
Ethylidene Norbornene (16219-75-3)	0.2 ppm	100 ppm	500 ppm
Fluorine (7782-41-4)	0.5 ppm	5 ppm	20 ppm
Formaldehyde (50-00-0)	1 ppm	10 ppm	25 ppm
Furfural (98-01-1)	2 ppm	10 ppm	100 ppm
Gluteraldehyde (111-30-8)	0.2 ppm	1 ppm	5 ppm
Hexachlorobutadiene (87-68-3)	1 ppm	3 ppm	10 ppm
Hexafluoroacetone* (684-16-2)	**NA†**	**1 ppm**	**50 ppm**
Hexafluoropropylene (116-15-4)	10 ppm	50 ppm	500 ppm
Hydrazine (302-01-2)	0.5 ppm	5 ppm	30 ppm
Hydrogen Chloride (7647-01-0)	3 ppm	20 ppm	150 ppm
Hydrogen Cyanide (74-90-8)	NA†	10 ppm	25 ppm
Hydrogen Fluoride (7664-39-3)**	2 ppm	20 ppm	50 ppm
Hydrogen Peroxide (7722-84-1)	10 ppm	50 ppm	100 ppm
Hydrogen Selenide (7783-07-5)	N/A	0.2 ppm	2 ppm
Hydrogen Sulfide (7783-06-4)	0.1 ppm	30 ppm	100 ppm
Iodine (7553-56-2)	0.1 ppm	0.5 ppm	5 ppm
Isobutyronitrile (78-82-0)	10 ppm	50 ppm	200 ppm
2-Isocyanatoethyl Methacrylate (30674-80-7)	NA†	0.1 ppm	1 ppm
Isopropyl Chloroformate (108-23-6)	ID‡	5 ppm	20 ppm
Lithium Hydride (7580-67-8)	25 $\mu g/m^3$	100 $\mu g/m^3$	500 $\mu g/m^3$
Maleic Anhydride (108-31-6)	**0.2 ppm**	**2 ppm**	**20 ppm**
Mercury Vapor (7439-97-6)	N/A	0.25 ppm	0.5 ppm
Methanol (67-56-1)	200 ppm	1000 ppm	5000 ppm
Methyl Bromide (74-83-9)	NA†	50 ppm	200 ppm
Methyl Chloride (74-87-3)	NA†	400 ppm	1000 ppm
Methyl Iodide (74-88-4)	25 ppm	50 ppm	125 ppm
Methyl Isocyanate* (624-83-9)	**0.025 ppm**	**0.25 ppm**	**1.5 ppm**
Methyl Mercaptan (74-93-1)	0.005 ppm	25 ppm	100 ppm
Methylene Chloride (75-09-02)	200 ppm	750 ppm	4000 ppm
Methylene Diphenyl Diisocyanate (MDI) (101-68-8)	0.2 mg/m^3	2 mg/m^3	25 mg/m^3
Methyltrichlorosilane (75-79-6)	0.5 ppm	3 ppm	15 ppm
Monomethylamine (74-89-5)	10 ppm	100 ppm	500 ppm
Nitric Acid WFNA (7697-37-2)	1 ppm	6 ppm	78 ppm
Nitrogen Dioxide (10102-44-0)	1 ppm	15 ppm	30 ppm
Nitrogen Triflouride* (7783-54-2)	**NA†**	**400 ppm**	**800 ppm**
Perchloroethylene (127-18-4)	100 ppm	200 ppm	1000 ppm
Perfluoroisobutylene (382-21-8)	NA†	0.1 ppm	0.3 ppm

Chemical (CAS Number)	ERPG–1	ERPG–2	ERPG–3
Phenol (108-95-2)	10 ppm	50 ppm	200 ppm
Phosgene (75-44-5)	N/A	0.2 ppm	1 ppm
Phosphine (7803-51-2)	NA†	0.5 ppm	5 ppm
Phosphorus Pentoxide (1314-56-3)	1 mg/m^3	10 mg/m^3	50 mg/m^3
Phosphorus Trichloride (7719-12-2)	0.5 ppm	3 ppm	15 ppm
Propylene Oxide (75-56-9)	50 ppm	250 ppm	750 ppm
Sodium Hydroxide (1310-73-2)	0.5 mg/m^3	5 mg/m^3	50 mg/m^3
Stibine (7803-52-3)	ID‡	0.5 ppm	1.5 ppm
Styrene (100-42-5)	50 ppm	250 ppm	1000 ppm
Sulfur Dioxide (7446-09-5)	0.3 ppm	3 ppm	15 ppm
Sulfuric Acid (Oleum [8014-95-7], Sulfur Trioxide [7446-11-9], and Sulfuric Acid [7664-93-9])	2 mg/m^3	10 mg/m^3	30 mg/m^3
Tetrachlorosilane (10026-04-7)	0.75 ppm	5 ppm	37 ppm
Tetraethoxysilane (78-10-4)	25 ppm	100 ppm	300 ppm
Tetrafluoroethylene (116-14-3)	200 ppm	1000 ppm	10,000 ppm
Tetrahydrofuran (109-99-9)	**100 ppm**	**500 ppm**	**5000 ppm**
Tetramethoxysilane (681-84-5)	NA†	10 ppm	20 ppm
Thionyl Chloride (7719-09-7)	0.2 ppm	2 ppm	10 ppm
Titanium Tetrachloride (7550-45-0)	5 mg/m^3	20 mg/m^3	100 mg/m^3
Toluene (108-88-3)	50 ppm	300 ppm	1000 ppm
Toluene 2,4- (2,6-) Diisocyanate (TDI) (584-84-9)	0.01 ppm	0.15 ppm	0.6 ppm
1,1,1-Trichloroethane (71-55-6)	350 ppm	700 ppm	3500 ppm
Trichloroethylene (79-01-6)	100 ppm	500 ppm	5000 ppm
Trichlorosilane (10025-78-2)	1 ppm	3 ppm	25 ppm
Trimethoxysilane (2487-90-3)	0.5 ppm	2 ppm	5 ppm
Trimethylamine (75-50-3)	0.1 ppm	100 ppm	500 ppm
Trimethylchlorosilane (75-77-4)	3 ppm	20 ppm	150 ppm
Triuranium Octaoxide (1344-59-8)	ID‡	10 mg/m^3	50 mg/m^3
Uranium Dioxide (1344-57-6)	ID‡	10 mg/m^3	30 mg/m^3
Uranium Hexafluoride (7783-81-5)	5 mg/m^3	15 mg/m^3	30 mg/m^3
Vinyl Acetate (108-05-4)	5 ppm	75 ppm	500 ppm
Vinyl Chloride (75-01-4)	500 ppm	5000 ppm	20,000 ppm

* 2005 revised document

** addendum published in 1999 with new 10-min values for HF (ERPG–1: 2 ppm; ERPG–2: 50 ppm; ERPG–3: 170 ppm)

NA† = not appropriate

ID‡ = insufficient data

NOTE: This information is correct as of January 1, 2005. It is possible that an ERPG under review by the Committee will be balloted and approved in 2005, making it eligible for inclusion in the 2006 ERPG Document Set.