

Key Chemical Hazards Ordered by Toxicity (AEGL-3, 30 min)				
Chemical	CAS	Syndrome	AEGL-3, ppm	IDLH, ppm
Warfare agent - VX	50782-69-9	N	0.0014	0.002
Warfare agent - Sarin (GB)	107-44-8	N	0.032	0.017
Warfare agent - Sulfur Mustard (HD)	505-60-2	S/E	0.041	
Warfare agent - Tabun (GA)	77-81-6	N	0.057	
Warfare agent - Soman (GD)	96-64-0	N	0.25	0.008
Warfare agent - Cyclosarin (GF)	329-99-7	N	0.27	
Methyl isocyanate	624-83-9	P	0.4	3
Parathion (AEGL-3 entry approx for rank purpose)	56-38-2	N	0.4	10 mg/m <sup>3</sup>
Arsine	7784-42-1	M	0.63	3
Phosphorus oxychloride (phosphoryl trichloride)	10025-87-3	P	1.1	
Warfare agent - Lewisite	541-25-3	S/E	1.4	
Phosgene (CG)	75-44-5	P	1.5	2
Acrolein	107-02-8	P	2.5	2
Cyanogen Chloride (CK) (AEGL-3 entry approx for rank purpose)	506-77-4	M	2.5	
Hydrogen selenide	715/7783	P	3.1	1
Methyl hydrazine	60-34-4	N	5.5	20
Phosphorus trichloride	12/2/7719	P	7	25
Phosphine	7803-51-2	P	7.2	
Diborane	19287-45-7	P	7.3	15
Bromine	7726-95-6	N	12	3
Fluorine	7782-41-4	P	19	25
Hydrogen cyanide (HCN)	74-90-8	M	21	50
Nitrogen Dioxide	10102-44-0	P	25	20
Allyl Alcohol	107-18-6	P	25	20
Chlorine	7782-50-5	P	28	10
Sulfur dioxide	9/5/7446	P	32	100
Hydrazine	302-01-2	N	45	50
Hydrogen sulfide	7783-06-4	N	59	100
Hydrogen fluoride (HF)	7664-39-3	P	62	30
Formaldehyde	50-00-0	S/E	70	20
Methyl Mercaptan	74-93-1	P	86	150
Nitric acid	7697-37-2	P	120	25
Boron trifluoride	712/7637	P	140	25
Sulfur trioxide	11/9/7446	P	200	
Sulfuric acid	7664-93-9	P	200	15 mg/m <sup>3</sup>
Acrylonitrile (AEGL-3 entry approx for rank purpose)	107-13-1	M	200	85
Hydrogen chloride	7647-01-0	P	210	50
Hydrogen bromide	10035-10-6	P	250	30
Dimethylamine	124-40-3	P	320	500
Ethylene oxide	75-21-8	P	360	800
Methylamine	74-89-5	P	510	100
Carbon disulfide	75-15-0	N	600	500
Carbon monoxide	630-08-0	N	600	1200
Bromomethane (methyl bromide)	74-83-9	P	1300	250
Propylene oxide	75-56-9	P	1300	400
Ammonia	7664-41-7	P	1600	300
<b>Color Key to primary associated syndromes</b>				
<b>PULMONARY</b>				
<b>NEUROTOXIC</b>				
<b>METABOLIC</b>				
<b>SKIN/EYE</b>				

This list comprises chemicals found on various other lists of acutely toxic industrial chemicals (meeting defined criteria of high-production volume [HPV] and toxicity). The list is informed by the following lists developed by other groups which have given good thought to such compilations: ITF-25, ITF-40, USACHPPM, AFMIC, and the recent Chem WG of NSTC Subcommittee on Decon Standards. Boron trichloride and tungsten hexafluoride are both HPV inhalation toxics found on ITF-25 list but for which AEGL and IDLH values are not found. Hence they are not incorporated on the list to left. The list does not include salts and metals which would be found on a list of ingestion hazards. The lists of TICs are augmented by addition of traditional chem warfare agents.

Note: Parathion, CK, and acrylonitrile AEGL values approximated by relation with other chemicals using different tox values as benchmarks to enable inclusion in tox ranking. There are yet no AEGL-3s for these materials.