

SUBJECT INDEX

Subject*	Page	Subject	Page
Acetaldehyde	5, 46, 117, 138, 149	Aniline and homologs	5, 50
Acetic acid	46, 149, 176	Animal waste pits	5
Acetic anhydride	46, 149	o-Anisidine	50, 149
Acetone	46, 142, 176	p-Anisidine	50, 149
Acetone cyanohydrin	46, 147	Antimony	6, 50
Acetonitrile	46, 147	ANTU (α -Naphthylthiourea)	50, 162
2-Acetylaminofluorene	4, 46	Arsenic, inorganic	6, 51, 139
Acetylene	4, 46	Arsine	6, 51
Acetylene dichloride	47	Art materials	6
Acetylene tetrabromide	47, 154	Asbestos	6, 7, 51, 123, 127, 140
Acetylsalicylic acid	47, 149	Asphalt fumes	7, 8, 51, 156
Acrolein	47, 138, 149, 161	Aspirin	47
Acrylamide	4, 47, 156	Atrazine	51, 149, 176
Acrylic acid	47, 149	Azides, explosive	8
Acrylonitrile	4, 47, 161	Azinphos-methyl (Guthion)	51, 86, 149, 162
Adiponitrile	47, 147	Azodrin	102
Air contaminants (MSHA)	4	Barium, soluble	51
Air contaminants (OSHA)	4	Barium sulfate	51, 149
Aldehydes	5, 47, 95, 131, 138	Baygon	115
Aldrin	5, 48, 73, 156, 161	Belt entry ventilation	42
Alkanes	5, 48, 87, 88, 107, 138	Benomyl	52, 154, 176
Allyl alcohol	48, 149, 162	Benzene	8, 52
Allyl chloride	5, 48, 156	Benzenethiol	40, 52, 147
Allyl glycidyl ether	48, 141, 156	Benzidine	8, 9, 16, 18, 19, 52
Allyl propyl disulfide	48, 149	Benzidine-based dyes	8, 9, 52
α -Alumina	48, 154	Benzo(a)pyrene	52
Aluminum metal	49	p-Benzoquinone	52
4-Aminodiphenyl	5, 49	Benzoyl peroxide	9, 52
2-Aminoethanol	49	Benzyl chloride	9, 52
2-Aminopyridine	49, 149	Beryllium	9, 53, 140
Amitrole	49, 149, 162	Biotechnology	9
Ammonia	5, 49, 156, 176	Biphenyl	53, 77, 147, 176
Ammonium chloride fume	49, 149	Bismuth telluride, Se-doped	53, 149
Ammonium sulfamate	50, 149, 162	Bismuth telluride, undoped	53, 149
n-Amyl acetate	50, 149	Bloodborne diseases	9, 10
sec-Amyl acetate	50, 149	Borates, tetra sodium salts	53, 149

*If a chemical is not listed here, consult Appendices I and V; chemicals listed in these appendices *only* are not included in this index.

Boron oxide	53, 149	Carpal tunnel syndrome	12
Boron tribromide	53, 149	Carpet layer's knee	12
Boron trifluoride	10, 53, 149	Catechol	59, 150
Brakes	10	Cellulose	59, 150
Bromacil	54, 149, 162	Cesium hydroxide	59, 150
Bromine	54, 149	Cetylmercaptan	59, 88
Bromine pentafluoride	54, 149	Chemical process safety	12
Bromoform	54, 149	Chlordane	60, 150, 163
Bromomethane	146	Chlorinated camphene	60, 150
1,3-Butadiene	10, 54	Chlorinated diphenyl oxide	60, 150
Butane	54, 149	Chlorine	13, 60, 163
1-Butanethiol	54, 147	Chlorine dioxide	60, 150, 163
2-Butanone	54, 98	Chlorine trifluoride	60, 150
2-Butoxyethanol	54, 81, 171	Chloroacetaldehyde	60, 150
2-Butoxyethyl acetate	55, 82	α -Chloroacetophenone	60, 150
n-Butyl acetate	55, 149	Chloroacetyl chloride	60, 150
sec-Butyl acetate	55, 149	Chlorobenzene	61, 154
tert-Butyl acetate	55, 149	o-Chlorobenzylidene malononitrile	61, 150
Butyl acrylate	55, 149	Chlorobromomethane	61, 150
n-Butyl alcohol	55, 149	2-Chloro-1,3-butadiene	61, 62
sec-Butyl alcohol	55, 149	Chlorodifluoromethane	61, 150
tert-Butyl alcohol	55, 149, 171	Chlorodiphenyl	61
Butylamine	55, 149	1-Chloro-2,3-epoxypropane	61, 79
tert-Butyl chromate	56	Chloroethanes	13, 39, 41, 62, 71, 87, 108, 124, 128, 141
Butyl glycidyl ether	56, 141	2-Chloroethanol	62, 81
n-Butyl lactate	56, 149	Chloroethylene	62, 131
Butyl mercaptan	56	Chloroform	13, 62, 148, 157, 163
o-sec-Butylphenol	56, 149	Chloromethane	146
p-tert-Butyltoluene	56, 149	bis(Chloromethyl) ether	13, 62
n-Butyronitrile	56, 147	Chloromethyl methyl ether	13, 62
Cadmium dust and fume	11, 56, 140	1-Chloro-1-nitropropane	62, 150
Calcium carbonate	57, 149	Chloropentafluoroethane	62, 150
Calcium cyanamide	57, 149, 163	Chloropicrin	62, 150, 163
Calcium hydroxide	57, 149	β -Chloroprene	13, 62
Calcium oxide	57, 149	o-Chlorostyrene	63, 150
Calcium silicate	57, 149	o-Chlorotoluene	63, 150
Calcium sulfate	57, 149	2-Chloro-6-trichloromethyl pyridine	63, 150
Camphor, synthetic	57, 149	Chlorpyrifos	63, 150, 164
Caprolactam	58, 149	Chrome pigment	13
Captafol	58, 149, 163	Chromic acid	13-14, 63
Captan	58, 149, 163	Chromite ore processing	14, 136, 150
Carbaryl	11, 58, 172	Chromium(II) compounds	63, 150
Carbofuran	58, 149, 163	Chromium(III) compounds	63, 150
Carbon black	11, 58	Chromium, hexavalent [Chromium(VI)]	14, 63, 64, 141
Carbon dioxide	11, 58, 156	Chromium metal	64, 150
Carbon disulfide	11, 59, 156, 163	Chromyl chloride	64
Carbon monoxide	11, 12, 59	Chrysene	14, 64
Carbon tetrabromide	59, 149	Clopidol	64, 150
Carbon tetrachloride	12, 59, 157, 163	Coal dust	64, 154
Carbonyl fluoride	59, 149	Coal gasification plants	14, 136
Carcinogen policy	12		
Carcinogens (OSHA 13)	12		

- Coal liquefaction 14, 136
Coal tar pitch volatiles 8, 14,
52, 64, 141, 164
Coal tar products 14, 141
Cobalt metal, dust, and fume . . . 14, 64, 141, 150
Cobalt carbonyl 65, 150
Cobalt hydrocarbonyl 65, 150
Coke oven emissions 14, 15, 65
Compressed air 15
Concrete, concrete forms, and shoring 15
Concrete, precast 15, 35, 137
Confined spaces, working in 15, 136
Construction industry 15, 22, 28, 37, 38
Copper 65, 150, 164
Cotton dust 15, 16, 65
Crag herbicide 65, 150
Cresol 16, 66, 164
m-Cresol 66
o-Cresol 66
p-Cresol 66
Crotonaldehyde 66, 138, 150
Crufomate 66, 150, 172
Cumene 66, 150
Cumulative trauma disorders 16
Cyanamide 66, 150
Cyanides 66
Cyanogen 66, 150
Cyanogen chloride 67, 150, 178
Cyclohexane 67, 150, 178
Cyclohexanethiol 40, 67, 147
Cyclohexanol 67, 150
Cyclohexanone 67, 142, 157, 178
Cyclohexene 67, 150
Cyclohexylamine 67, 150
Cyclohexylmercaptan 67
Cyclonite 67, 150
Cyclopentadiene 68, 150
Cyclopentane 68, 150
Cyhexatin 68, 150, 164
2,4-D 68, 150, 172
Dasanit 83
DDT 16, 68
Decaborane 68, 150
1-Decanethiol 68, 147
Decylmercaptan 68
Delnav 77
Demeton 68, 150
Diacetone alcohol 69, 142, 179
2,4-Diaminoanisole 16, 69
4,4-Diaminodiphenylmethane 16
1,2-Diaminoethane 69, 81
o-Dianisidine-based dyes 8, 16, 18, 69
Diazinon 69, 150, 164
Diazomethane 69, 150
Diborane 70, 150
1,2-Dibromo-3-chloropropane
(Dibromochloropropane) 17, 70, 164
2-N-Dibutylaminoethanol 70, 150
2,6-Di-tert-butyl-p-cresol 69, 150, 179
Dibutyl phosphate 70, 150
Dibutyl phthalate 70, 150
Dichloroacetylene 70, 150
o-Dichlorobenzene 70, 150, 173
p-Dichlorobenzene 71, 150, 173
3,3'-Dichlorobenzidine 17, 71
Dichlorodifluoromethane 71, 150, 179
1,3-Dichloro-5,5-dimethyl hydantoin 70, 150
Dichlorodiphenyltrichloroethane 68
1,1-Dichloroethane 71, 141, 150
1,1-Dichloroethylene 132
1,2-Dichloroethylene 71, 150
Dichloroethyl ether 71, 150
Dichloromethane 71, 101
Dichloromonofluoromethane 71, 150
1,1-Dichloro-1-nitroethane 71, 150
1,2-Dichloropropane 72, 115
1,3-Dichloropropene 72, 150, 164
2,2-Dichloropropionic acid 72, 150
Dichlorotetrafluoroethane 72, 150
Dichlorvos 72, 150, 164
Dicrotophos 72, 150, 164
Dicyclohexylmethane 4,4-diisocyanate 72, 141
Dicyclopentadiene 72, 150
Dicyclopentadienyl iron 73, 150
Dieldrin 5, 17, 73, 164
Diesel exhaust 17, 73
Diethanolamine 73, 150
Diethylamine 73, 150
2-Diethylaminoethanol 73, 150
Diethylcarbamoyl chloride 17
Diethylene dioxide 77
Diethylene triamine 73, 150
Diethyl ether 73, 177, 180
Di-2-ethylhexylphthalate 17, 69, 157
Diethyl ketone 73, 150
Diethyl phthalate 73, 150
Difluorodibromomethane 74, 150
Difolatan 58
Diglycidyl ether 74, 157
Dihydroxybenzene 74, 90
Diisobutyl ketone 74, 142, 173
Diisocyanates 18, 40, 72,
74, 88, 92, 101, 103, 141
Diisopropylamine 74, 150

Dimethoxymethane	100
Dimethyl acetamide	74, 150
Dimethylamine	74, 150
4-Dimethylaminoazobenzene	18, 74
bis[2-(Dimethylaminoethyl) ether]	76, 146
Dimethylaminopropionitrile	75, 146
Dimethylaniline	75, 150
Dimethylbenzene	133
Dimethylcarbamoyl chloride	18, 75
Dimethyl-1,2-dibromo-2,2-dichloroethyl phosphate	75, 150
Dimethylethylamine	18
Dimethylformamide	18, 75, 150
2,6-Dimethyl-4-heptanone	74
1,1-Dimethylhydrazine	75, 141
Dimethylphthalate	76, 150
Dimethyl sulfate	76, 150
Dinitro- <i>o</i> -cresol	18, 76, 157
Dinitrobenzene, meta, ortho, para	76, 150
Dinitrolmide	76, 150
Dinitrotoluenes	18, 76, 141, 157
3,5-Dinitro- <i>o</i> -toluamide	76
Dioxane	18, 77
Dioxathion	77, 150, 165
Dioxin	18, 124
Diphenyl	77, 150
Diphenylamine	77, 150, 165
Diphenylmethane diisocyanate	101
Dipropyl ketone	77, 150
Dipropylene glycol methyl ether	77, 150, 180
Diquat	77, 150
Disulfiram	77, 150
Disulfoton	78, 150, 165
Diuron	78, 150, 173
Divinyl benzene	78, 150
1-Dodecanethiol	78, 147
Dodecylmercaptan	78
Electrical energy	135
Electrical safety	19
Electric component manufacturing	136
Electrocutions	19, 37, 135
Emergency egress from elevate work stations	19
Emery	78, 154
Endosulfan	78, 150, 165
Endrin	78, 150, 165
Enflurane	78, 148
Epichlorohydrin	20, 61, 79, 173
EPN	79, 150, 165
1,2-Epoxypropane	79
2,3-Epoxy-1-propanol	85
Ethanethiol	79, 147

Ethanol	80, 173
Ethanolamine	79, 150, 180
Ethion	79, 150, 165
2-Ethoxyethanol	24, 79, 82
2-Ethoxyethyl acetate	79, 82
Ethyl acetate	79, 151, 180
Ethyl acrylate	80, 151
Ethyl alcohol	80, 151
Ethylamine	80, 151
Ethyl amyl ketone	80, 151
Ethyl benzene	80, 151
Ethyl bromide	80, 154
Ethyl butyl ketone	80, 151
Ethyl chloride	80, 102
Ethylene chlorohydrin	81, 151
Ethylenediamine	81, 151, 173
Ethylene dibromide	20, 81, 165
Ethylene dichloride	20, 81, 157, 165
Ethylene glycol	81, 154, 181
Ethylene glycol dinitrate	32, 81, 157
Ethylene glycol monobutyl ether	20, 24, 81, 141
Ethylene glycol monobutyl ether acetate	20, 24, 82, 141
Ethylene glycol monoethyl ether	21, 24, 82, 141
Ethylene glycol monoethyl ether acetate	21, 24, 82, 141
Ethylene glycol monomethyl ether	21, 24, 82, 141, 181
Ethylene glycol monomethyl ether acetate	21, 24, 82, 141
Ethyleneimine	21, 83
Ethylene oxide	21, 82, 165
Ethylene thiourea	21, 83
Ethyl ether	73, 80, 154
Ethyl formate	80, 151, 165
Ethylidene chloride	83
Ethylidene norbornene	83, 151
Ethyl mercaptan	79
N-Ethylmorpholine	83, 151
Ethyl silicate	81, 151
Excavations	22, 136
Explosives	22
Exposure measurements (EPA)	22
Fall protection	22, 43
Farm workers	5
Fenamiphos	83, 151
Fensulfothion	83, 151, 166
Fenthion	83, 154, 173
Ferbam	83, 151, 181
Ferrocene	73

- Ferrovanadium dust 84, 148, 157
 Fibrous glass 22, 39, 84, 147
 Field sanitation 22
 Fire brigades 22
 Fluorides, inorganic 22, 84, 141
 Fluorine 84, 151
 Fluorocarbon polymers, decomposition
 products of 23
 Fluorotrichloromethane 84, 151
 Fluroxene 84, 148
 Fonofos 84, 151, 166
 Formaldehyde 23, 84, 117, 166
 Formamide 84, 151
 Formic acid 85, 151
 Foundries 23
 Freon 23
 Furadan 58
 Furfural 85, 154, 181
 Furfuryl alcohol 23, 85, 157
 Gallium arsenide 23, 85
 Gasoline 85, 151
 Germanium tetrahydride 85, 151
 Glutaraldehyde 85, 138, 151, 166
 Glycerin 85, 154
 Glycidol 85, 151
 Glycidyl ethers 24, 86, 141
 Glycol ethers 24, 86, 141
 Glycolonitrile 86, 147
 Grain auger 19
 Grain dust 24, 86, 151
 Grain elevators 24
 Graphite, natural 86, 151
 Graphite, synthetic 86, 154
 Guthion 51, 86
 Gypsum 86, 151
 Hafnium 86, 151
 Halothane 87, 148
 Halowax 1014 87
 Hand-arm vibration 25, 135
 Hazard communication (MSHA) 25
 Hazard communication (OSHA) 25
 Hazardous energy 25, 28, 29, 137
 Hazardous waste (EPA) 25
 Hazardous waste (OSHA) 26
 Health care workers 26
 Heat stress (see also Hot environments) 136
 Hepatitis B 9, 10
 Heptachlor 87, 151, 166
 Heptane 87, 138
 1-Heptanethiol 87, 148
 3-Heptanone 80
 n-Heptylmercaptan 87
 Hexachlorobutadiene 87, 151
 Hexachlorocyclopentadiene 87, 151, 173
 Hexachloroethane 87, 141, 157, 173
 Hexachloronaphthalene 87, 151
 1-Hexadecanethiol 88, 148
 Hexafluoroacetone 88, 151
 Hexamethylene diisocyanate (HDI) 88, 141
 Hexamethylphosphoric triamide (HMPA) ... 26,
 88
 Hexane 88, 138, 157
 Hexane isomers 88, 138
 1-Hexanethiol 88, 148
 2-Hexanone 98
 Hexone 99
 sec-Hexyl acetate 89, 151
 Hexylene glycol 89, 151
 n-Hexylmercaptan 88
 Hot environments 26, 135
 Hydrazines 26, 27, 89, 141
 Hydrogen bromide 89, 151
 Hydrogen chloride 89, 151, 166
 Hydrogen cyanide 27, 66, 89, 142, 158
 Hydrogen fluoride 27, 90, 158
 Hydrogen peroxide 90, 151
 Hydrogen selenide 90, 151
 Hydrogen sulfide 27, 90
 Hydrogenated terphenyls 90, 151
 Hydroquinone 27, 90
 2-Hydroxypropyl acrylate 90, 151
 Indene 90, 151
 Indium and compounds 90, 151
 Indoor air quality 27
 Iodine 91, 151, 166
 Iodoform 91, 151
 Iodomethane 146
 Iron oxide, dust and fume 91, 151
 Iron pentacarbonyl 91, 151
 Iron salts, soluble 91, 151
 Isoamyl acetate 91, 151
 Isoamyl alcohol 91, 151
 Isobutyl acetate 91, 151
 Isobutyl alcohol 91, 151
 Isobutyronitrile 92, 147
 Isooctyl alcohol 92, 151
 Isophorone 92, 142, 181
 Isophorone diisocyanate 92, 141, 158
 2-Isopropoxyethanol 92, 154
 Isopropyl acetate 92, 154
 Isopropyl alcohol 27, 92, 158
 Isopropylamine 93, 154
 N-Isopropylaniline 93, 151
 Isopropyl ether 92, 151

Isopropyl glycidyl ether (IGE)	92, 141	Methylamine	97, 151
Kaolin	93, 151	Methyl amyl alcohol	99
Kepone	27, 93	Methyl amyl ketone	97, 142
Kerosene	93, 147, 182	Methyl bromide	30, 31, 98, 146, 167
Ketene	93, 151	Methyl butyl ketone	98, 142
Ketones	28, 46, 67, 69, 92, 93, 96-100, 142	Methyl chloride	30, 31, 98, 146
Laboratory safety	28	Methyl chloroform	41, 128
Ladders	19, 38	Methyl chloromethyl ether	62
Lannate	96	Methyl 2-cyanoacrylate	98, 151
Lead, inorganic	28, 93, 142	Methylcyclohexane	101, 151
Lift-slab construction	28	Methylcyclohexanol	101, 151
Limestone	94, 151	<i>o</i> -Methylcyclohexanone	101, 151
Lindane	94, 151, 166	Methylcyclopentadienyl manganese tricarbonyl	101, 151
Liquified petroleum gas	94, 151	Methyl demeton	98, 151
Lithium hydride	94, 151	Methyl ethyl ketone (MEK)	98, 142, 158
Lockout/tagout	28, 29, 137	Methyl ethyl ketone peroxide (MEKP)	99, 151
Logging	29, 137	Methyl formate	99, 151
Magnesite	94, 151	5-Methyl-3-heptanone	80
Magnesium oxide fume	94, 154	Methylhydrazine	99, 141
Malathion	29, 94, 158, 174	Methyl iodide	30, 31, 99, 146, 158
Maleic anhydride	94, 151	Methyl isoamyl ketone	99, 142
Malonaldehyde	5, 95, 138	Methyl isobutyl carbinol	97, 99, 151
Malononitrile	95, 147	Methyl isobutyl ketone	99, 142, 158, 174
Manganese compounds and fumes	95, 151	Methyl isocyanate	30, 99, 151
Manganese cyclopentadienyl tricarbonyl ..	95, 151	Methyl isopropyl ketone	100, 151
Manganese tetroxide	95, 154	Methyl mercaptan	96
Manual lifting	29	Methyl methacrylate	100, 151
Manure pits	5	Methyl parathion	30, 100, 158, 167
Marble	95, 151	Methyl propyl ketone	100, 109, 142
Mechanical power presses	29, 137	Methyl silicate	100, 151
Medical waste	29	α -Methyl styrene	100, 151
Mercury, aryl and inorganic	29, 95, 142, 158	4,4'-Methylene bis(2-chloroaniline) (MOCA)	30, 101, 158
Mercury (organo) alkyl compounds	95, 151	Methylene bis(4-cyclohexylisocyanate)	72
Mercury, vapor	95, 158	Methylene bisphenyl isocyanate (MDI)	141
Mesityl oxide	96, 142	Methylene chloride	30, 31, 101, 174
Methacrylic acid	96, 151	4,4'-Methylenedianiline	31, 102
Methanethiol	96, 100, 148	Metribuzin	102, 151
Methods of compliance	30	Mevinphos	112, 167
Methomyl	96, 151, 167	Mica	119
Methoxychlor	96, 151, 182	Mine lamps	31
2-Methoxyethanol	24, 82	Mining (air contaminants)	31
2-Methoxyethyl acetate	82	Mineral wool	102, 147
Methoxyflurane	96, 148	Mobile equipment	31
4-Methoxyphenol	97, 151	Molybdenum, insoluble	102, 155
Methyl acetate	97, 151	Molybdenum, soluble	102, 155
Methyl acetylene	97, 151	Monochloroethane	102, 141
Methyl acetylene-propadiene mixture (MAPP)	97, 151	Monocrotophos	102, 151, 167
Methyl acrylate	97, 151	Monohalomethanes	30, 31, 98, 99, 103
Methylacrylonitrile	100, 151	Monomethyl aniline	103, 151
Methylal	100, 151		
Methyl alcohol	30, 97, 158		

- Monomethylhydrazine 99
 Morpholine 103, 151
 Naphtha 103, 110, 132, 151
 Naphthalene 103, 151, 183
 Naphthalene diisocyanate 103, 141
 α -Naphthylamine 31, 103
 β -Naphthylamine 31, 103, 105, 110, 146
 NIAX catalyst ESN 32
 Nickel carbonyl 32, 104
 Nickel, metal, soluble, insoluble, and
 inorganic 32, 104, 146
 Nickel sulfide roasting (as Ni) 104, 147
 Nicotine 104, 151
 Nitric acid 32, 104, 158
 Nitric oxide 104, 147
 Nitriles 32, 46, 47, 56, 86,
 92, 95, 104, 115, 121, 125, 147
 p-Nitroaniline 104, 151
 Nitrobenzene 104, 151
 4-Nitrobiphenyl 32, 105
 p-Nitrochlorobenzene 105, 151
 Nitroethane 105, 151
 Nitrogen dioxide 105, 147, 159
 Nitrogen trifluoride 105, 152
 Nitroglycerin 32, 105, 159
 Nitromethane 105, 155
 2-Nitronaphthalene 105, 146
 1-Nitropropane 105, 152
 2-Nitropropane 32, 167
 Nitrosamines 33
 N-Nitrosodimethylamine 33, 106
 m-Nitrotoluene 106, 152
 o-Nitrotoluene 106, 152
 p-Nitrotoluene 106, 152
 Nitrotrichloromethane 62
 Nitrous oxide 106, 148
 Noise 33, 135-137
 Nonane 106, 152
 1-Nonanethiol 106, 148
 n-Nonylmercaptan 106
 Octachloronaphthalene 106, 152
 1-Octadecanethiol 107, 148
 Octadecylmercaptan 107
 Octane 107, 138
 1-Octanethiol 107, 148
 n-Octylmercaptan 107
 Oil and gas 33, 137
 Oil mist, mineral 152
 Organic solvents 107, 147
 Organotin compounds 33, 107, 147
 Osmium tetroxide 107, 152
 Oxalic acid 107, 152, 167
 Oxides of nitrogen 34, 104, 105, 108, 147
 Oxygen difluoride 108, 152
 Ozone 108, 152
 Paint and allied coatings manufacture ... 34, 137
 Paraffin wax fume 108, 152
 Paraquat 108, 152
 Parathion 34, 108, 159, 167
 Particulates not otherwise regulated ... 108, 155
 Pattern of violations 34
 Pentaborane 108, 152
 Pentachloroethane 108, 141
 Pentachloronaphthalene 109, 152
 Pentachlorophenol 109, 152, 167
 Pentaerythritol 109, 152
 Pentahydrate 53
 Pentane 109, 138, 183
 1-Pentanethiol 109, 148, 183
 2-Pentanone 69, 100
 Pentylmercaptan 109
 Perchloroethylene 124
 Perchloromethyl mercaptan 110, 152
 Perchloryl fluoride 110, 152
 Perlite 110, 152
 Personal protective equipment 1, 2, 34, 43
 Pesticides 3, 9, 34, 110, 147, 161, 171, 176
 Pesticides manufacturing and formulation ... 34
 Petroleum distillates 110, 147
 Phenacyl chloride 60
 Phenol 34, 110, 159, 167
 Phenothiazine 110, 152, 174
 p-Phenylene diamine 111, 152
 Phenyl ether-biphenyl mixture, vapor ... 111, 152
 Phenyl ether, vapor 111, 152
 Phenylethylene 121
 Phenyl glycidyl ether 111, 141
 Phenylhydrazine 111, 141, 159
 Phenyl mercaptan 52
 N-Phenyl- β -naphthylamine 110, 146
 Phenylphosphine 111, 152
 Phorate 112, 152, 168
 Phosdrin 112, 152
 Phosgene 34, 112
 Phosphine 112, 152
 Phosphoric acid 112, 152, 168
 Phosphorus (yellow) 112, 152, 168
 Phosphorus oxychloride 112, 152
 Phosphorus pentachloride 112, 152
 Phosphorus pentasulfide 112, 152
 Phosphorus trichloride 113, 152
 Phthalic anhydride 113, 152
 m-Phthalodinitrile 113, 152
 Picloram 113, 155, 183

Picric acid	113, 152	Restaurants	19
Pindone	113, 152, 168	Rhodium, metal fume and insoluble compounds	117, 152
Piperazine dihydrochloride	113, 152, 183	Rhodium, soluble compounds	117, 152
2-Pivalyl-1,3-indandione	113	Robotics	37
Plaster of Paris	113, 152	Ronnell	117, 152, 175
Platinum	114, 152	Rosin core solder, pyrolysis products	117, 152
Polychlorinated biphenyls	35, 114, 147	Rotenone	117, 152, 175
Polynuclear aromatic hydrocarbons (PAH's)	35, 58, 64	Rouge	117, 155
Portland cement	114, 152	Safety and health programs	37
Potassium hydroxide	114, 152, 184	Scaffolds	37
Precast concrete	15, 35, 137	Selenium compounds	118, 152
Propane	114, 152	Selenium hexafluoride	118, 152
Propane sultone	114, 152	Sesone	65
1-Propanethiol	114, 116, 148	Sevin	58
Propargyl alcohol	115, 152	Shipyards	37
β -Propiolactone	35, 115	Silica, amorphous, diatomaceous earth	118, 152
Propionic acid	115, 152, 168	Silica, amorphous, precipitated, and gel	118, 152, 185
Propionitrile	115, 147	Silica, crystalline	38, 118
Propoxur	115, 152	Silica, crystalline cristobalite	118
n-Propyl acetate	115, 152	Silica, crystalline quartz	118
n-Propyl alcohol	115, 152	Silica, crystalline tridymite	118
n-Propyl nitrate	115, 152	Silica, crystalline tripoli	118
Propylene dichloride	115, 152, 184	Silica, fused	119
Propylene glycol dinitrate	116, 152	Silicates	119, 152
Propylene glycol monomethyl ether	116, 152	Silicon	119, 152
Propylene imine	116, 152	Silicon carbide	119, 152
Propylene oxide	35, 116, 168	Silicon tetrahydride	119, 152
n-Propylmercaptan	114	Silos, oxygen-limiting	38
Propyne	97	Silver	119, 152, 185
Proteolytic enzymes	121	Skylights	38
Pyrethrum	116, 152	Smoke, tobacco	40, 137
Pyridine	116, 152, 185	Soapstone	119
Pyro powders	49	Sodium azide	120, 152, 168
Pyrocatechol	59	Sodium bisulfite	120, 152, 168
Quinone	117, 152, 185	Sodium fluoroacetate	120, 152, 168
Radiation, ionizing	35, 36	Sodium hydroxide	38, 120, 169
Radiation, nonionizing	36	Sodium metabisulfite	120, 152
Radiation, ultraviolet	41, 135	Solvents	36, 38, 93, 107, 117, 121, 132, 147
Radiofrequency sealers	36, 135	Stairways and ladders	38
Radon progeny	36, 135	Starch	120, 152
Recordkeeping guidelines	36	Stibine	120, 152
Refined petroleum solvents	36, 117, 147	Stoddard solvent	121, 147, 169
Refrigerant 114	72	Strychnine	121, 152, 169
Refrigerant 21	71	Styrene	38, 121, 159
Rendering processes, animal	37, 136	Subtilisins	121, 152
Resorcinal	117, 152	Succinonitrile	121, 147
Respirable dust	37	Sucrose	121, 152
Respirators (Coast Guard)	37	Suffocation	38
Respirators (NIOSH)	37	Sulfotep	123
Respirators (OSHA)	37		

- Sulfur dioxide 38, 121, 159, 169
 Sulfur hexafluoride 121, 152
 Sulfuric acid 39, 122, 169
 Sulfur monochloride 122, 152
 Sulfur pentafluoride 122, 152
 Sulfur tetrafluoride 122, 152
 Sulfuryl fluoride 122, 152, 169
 Sulprofos 122, 152
 Surveillance systems 39
 Synthetic vitreous fibers 39, 147
 Systox 68
 2,4,5-T 122, 152, 169
 Talc (containing asbestos) 119
 Talc (containing no asbestos) 123, 152
 Tantalum 123, 152
 TEDP 123, 152, 169
 Telecommunications 39
 Tellurium and compounds 123, 152
 Tellurium hexafluoride 123, 152
 Temephos 123, 152, 175
 TEPP 123, 152, 169
 Terphenyls 123, 152
 2,3,7,8-Tetrachlorodibenzo-p-dioxin 39, 124
 1,1,1,2-Tetrachloro-2,2-difluoroethane 123, 152
 1,1,2,2-Tetrachloro-1,2-difluoroethane 123, 152
 1,1,1,2-Tetrachloroethane 124, 141
 1,1,2,2-Tetrachloroethane 39, 124, 141, 159, 169
 Tetrachloroethylene 39, 40, 124, 169
 Tetrachloromethane 59
 Tetrachloronaphthalene 124, 152
 Tetraethyl lead 124, 152
 Tetraethyl pyrophosphate 123
 Tetrahydrofuran 124, 152
 Tetramethyl lead 124, 152
 Tetramethyl succinonitrile 125, 147
 Tetranitromethane 125, 152
 Tetrasodium pyrophosphate 125, 153, 186
 Tetryl 125, 153
 Thallium, soluble compounds 125, 153
 4,4'-Thiobis-(6-tertbutyl-m-cresol) 125, 153
 Thioglycolic acid 125, 153
 Thiols 40, 52, 54, 68, 78, 79, 87, 88, 96, 106, 107, 109, 114, 125, 130, 147
 Thionyl chloride 125, 153
 Thiram 126, 153, 169
 Tin, inorganic compounds 126, 153
 Tin, organic compounds 33, 126, 147, 159
 Tin oxide 126, 153
 Titanium dioxide 126, 153
 TNT 129, 153
 Tobacco smoke 40, 137
 o-Tolidine 40, 126
 o-Tolidine-based dyes 18, 126
 Toluene 40, 126, 159, 187
 Toluenediamine 40, 127
 Toluene diisocyanate 40, 127, 141
 m-Toluidine 127, 155
 o-Toluidine 40, 127
 p-Toluidine 127, 153
 Toxaphene 60, 169
 Tremolite 6, 7, 127, 140
 Tributyl phosphate 127, 153
 Trichloroacetic acid 127, 153, 169
 1,2,4-Trichlorobenzene 128, 153, 187
 1,1,1-Trichloroethane 40, 41, 128, 141, 187
 1,1,2-Trichloroethane 128, 141, 159
 Trichloroethylene 41, 128, 148, 169
 Trichlorofluoromethane 84
 Trichloromethane 62
 Trichloronaphthalene 128, 153
 1,2,3-Trichloropropane 128, 153
 1,1,2-Trichloro-1,2,2-trifluoroethane 128, 153
 Triethylamine 128, 155
 Trifluorobromomethane 129, 153
 Trimellitic anhydride 41, 129, 159
 Trimethylamine 129, 153
 Trimethyl benzene 129, 153
 Trimethyl phosphite 129, 153
 2,4,6-Trinitrophenyl 113
 2,4,6-Trinitrophenylmethyl nitramine 125
 2,4,6-Trinitrotoluene 129, 153
 Triorthocresyl phosphate 129, 153
 Triphenyl amine 130, 153
 Triphenyl phosphate 130, 153
 Tungsten 41, 130, 148, 159
 Turpentine 130, 153, 187
 Ultraviolet radiation 41, 135
 1-Undecanethiol 130, 148
 Underground construction 41
 Uranium 131, 153
 n-Valeraldehyde 131, 153
 Vanadium 41, 84, 131, 148
 Vanadium pentoxide 131, 148
 Vegetable oil mist 131, 153
 Vehicle safety 41
 Ventilation 31, 42
 Vibration syndrome 25
 Video display terminals 42
 Vinyl acetate 42, 131
 Vinyl benzene 121
 Vinyl bromide 131, 148
 Vinyl chloride 42, 43, 148

Vinylcyanide	47	Worker notification	44
Vinyl cyclohexene dioxide	132, 153	Xylene	44, 133, 160, 170
Vinyl fluoride	132, 148	m-Xylene	133
Vinyl halides	43, 132, 148	m-Xylene α,α' -diamine	133, 153
Vinyl toluene	132, 153	o-Xylene	133
Vinylidene chloride	132, 148	p-Xylene	133
Vinylidene fluoride	132, 148	Xylidine	133, 153
VM&P naphtha	132, 147	Yttrium	133, 153
Walking and working surfaces	43	Zinc chloride fume	133, 153
Warfarin	132, 153, 170	Zinc chromate	134
Waste anesthetic gases and vapors	41, 43, 132, 148	Zinc oxide	44, 134, 160, 188
Water spray (fog)	43	Zinc oxide, fume	134, 160
Welding	43, 133, 137	Zinc stearate	134, 153
Welding fumes	49	Zirconium compounds	134, 153
Wood dust	43, 133	Zirconium tetrachloride	155

CAS NUMBER INDEX

CAS Number*	Page	CAS Number*	Page
50-29-3	68	71-36-3	55
50-78-2	47	71-43-2	52
53-96-3	46	71-55-6	128
54-11-5	104	72-20-8	78
55-38-9	83	72-43-5	96
55-63-0	105	74-83-9	98
56-23-5	59	74-86-2	46
56-38-2	108	74-87-3	98
56-81-5	85	74-88-4	99
57-14-7	75	74-89-5	97
57-50-1	121	74-90-8	89
57-57-8	115	74-93-1	96
57-74-9	60	74-96-4	80
58-89-9	94	74-97-5	61
60-11-7	74	74-98-6	114
60-34-4	99	74-99-7	97
60-57-1	73	75-00-3	102
61-82-5	49	75-01-4	131
62-53-3	50	75-02-5	132
62-73-7	72	75-04-7	80
62-74-8	120	75-05-8	46
62-75-9	106	75-07-0	46
63-25-2	58	75-08-1	79
64-17-5	80	75-09-2	101
64-18-6	85	75-12-7	84
64-19-7	46	75-15-0	59
67-56-1	97	75-21-8	82
67-63-0	92	75-25-2	54
67-64-1	46	75-31-0	93
67-66-3	62	75-34-3	71
67-72-1	87	75-35-4	132
68-11-1	125	75-38-7	132
68-12-2	75	75-43-4	71
71-23-8	115	75-44-5	112

*CAS numbers are provided for chemicals listed in Table 1. For information regarding CAS numbers, contact: Chemical Abstracts Service, P.O. Box 3012, Columbus, OH 43210; telephone, 1-800-848-6538, extension 2308.

75-45-6	61	83-26-1	113
75-47-8	91	83-79-4	117
75-50-3	129	84-66-2	73
75-52-5	105	84-74-2	70
75-55-8	116	85-00-7	77
75-56-9	116	85-44-9	113
75-61-6	74	86-50-0	51
75-63-8	129	86-88-4	50
75-65-0	55	87-68-3	87
75-69-4	84	87-86-5	109
75-71-8	71	88-72-2	106
75-74-1	124	88-89-1	113
75-86-5	46	89-72-5	56
75-99-0	72	91-20-3	103
76-01-7	108	91-59-8	103
76-03-9	127	91-94-1	71
76-06-2	62	92-52-4	77
76-11-9	123	92-67-1	49
76-12-0	123	92-84-2	110
76-13-1	128	92-87-5	52
76-14-2	72	92-93-3	105
76-15-3	62	93-76-5	122
76-22-2	57	94-36-0	52
76-38-0	96	94-75-7	68
76-44-8	87	95-13-6	90
77-47-4	87	95-47-6	133
77-73-6	72	95-48-7	66
77-78-1	76	95-49-8	63
78-00-2	124	95-50-1	70
78-10-4	81	95-53-4	127
78-30-8	129	95-80-7	127
78-34-2	77	96-12-8	70
78-59-1	92	96-18-4	128
78-82-0	92	96-22-0	73
78-83-1	91	96-33-3	97
78-87-5	115	96-45-7	83
78-92-2	55	96-69-5	125
78-93-3	98	97-77-8	77
79-00-5	128	98-00-0	85
79-01-6	128	98-01-1	85
79-06-1	47	98-51-1	56
79-09-4	115	98-82-8	66
79-10-7	47	98-83-9	100
79-20-9	97	98-95-3	104
79-24-3	105	99-08-1	106
79-27-6	47	99-65-0	76
79-34-5	124	99-99-0	106
79-41-4	96	100-00-5	105
79-44-7	75	100-01-6	104
79-46-9	105	100-25-4	76
80-62-6	100	100-37-8	73
81-81-2	132	100-41-4	80

100-42-5	121	108-21-4	92
100-44-7	52	108-24-7	46
100-61-8	103	108-31-6	94
100-63-0	111	108-38-3	133
100-74-3	83	108-39-4	66
101-14-4	101	108-44-1	127
101-68-8	101	108-46-3	117
101-77-9	102	108-83-8	74
101-84-8	111	108-84-9	89
102-54-5	73	108-87-2	101
102-81-8	70	108-88-3	126
105-46-4	55	108-90-7	61
105-60-2	58	108-91-8	67
106-35-4	80	108-93-0	67
106-42-3	133	108-94-1	67
106-44-5	66	108-95-2	110
106-46-7	71	108-98-5	52
106-49-0	127	109-59-1	92
106-50-3	111	109-60-4	115
106-51-4	117	109-66-0	109
106-87-6	132	109-73-9	55
106-89-8	79	109-74-0	56
106-92-3	48	109-77-3	95
106-93-4	81	109-79-5	54
106-97-8	54	109-86-4	82
106-99-0	54	109-87-5	100
107-02-8	47	109-89-7	73
107-03-9	114	109-94-4	80
107-05-1	48	109-99-9	124
107-06-2	81	110-12-3	99
107-07-3	81	110-19-0	91
107-12-0	115	110-43-0	97
107-13-1	47	110-49-6	82
107-15-3	81	110-54-3	88
107-16-4	86	110-61-2	121
107-18-6	48	110-62-3	131
107-19-7	115	110-66-7	109
107-20-0	60	110-83-8	67
107-21-1	81	110-86-1	116
107-30-2	62	110-91-8	103
107-31-3	99	111-30-8	85
107-41-5	89	111-31-9	88
107-49-3	123	111-40-0	73
107-66-4	70	111-42-2	73
107-87-9	100	111-44-4	71
107-98-2	116	111-65-9	107
108-03-2	105	111-69-3	47
108-05-4	131	111-76-2	81
108-10-1	99	111-84-2	106
108-11-2	99	111-88-6	107
108-18-9	74	112-07-2	82
108-20-3	92	112-55-0	78

114-26-1	115	144-62-7	107
115-29-7	78	148-01-6	76
115-77-5	109	150-76-5	97
115-86-6	130	151-56-4	83
115-90-2	83	151-67-7	87
117-81-7	69	156-62-7	57
118-52-5	70	218-01-9	64
118-96-7	129	287-92-3	68
119-93-7	126	298-00-0	100
120-80-9	59	298-02-2	112
120-82-1	128	298-04-4	78
121-44-8	128	299-84-3	117
121-45-9	129	299-86-5	66
121-69-7	75	300-76-5	75
121-75-5	94	302-01-2	89
121-82-4	67	309-00-2	48
122-39-4	77	314-40-9	54
122-60-1	111	330-54-1	78
123-19-3	77	333-41-5	69
123-31-9	90	334-88-3	69
123-42-2	69	353-50-4	59
123-51-3	91	406-90-6	84
123-73-9	66	409-21-2	119
123-86-4	55	420-04-2	66
123-91-1	77	460-19-5	66
123-92-2	91	463-51-4	93
124-38-9	58	479-45-8	125
124-40-3	74	504-29-0	49
126-73-8	127	506-77-4	67
126-98-7	100	509-14-8	125
126-99-8	62	528-29-0	76
127-18-4	124	532-27-4	60
127-19-5	74	534-52-1	76
128-37-0	69	540-59-0	71
131-11-3	76	540-88-5	55
133-06-2	58	541-85-5	80
134-32-7	103	542-75-6	72
135-88-6	110	542-88-1	62
136-78-7	65	542-92-7	68
137-05-3	98	546-93-0	94
137-26-8	126	552-30-7	129
138-22-7	56	556-52-5	85
140-88-5	80	557-05-1	134
141-32-2	55	558-13-4	59
141-43-5	79	563-12-2	79
141-66-2	72	563-80-4	100
141-78-6	79	581-89-5	105
141-79-7	96	583-60-8	101
142-64-3	113	591-78-6	98
142-82-5	87	593-60-2	131
143-10-2	68	594-42-3	110
143-50-0	93	594-72-9	71

600-25-9	62	1563-66-2	58
603-34-9	130	1569-69-3	67
615-05-4	69	1639-09-4	87
624-83-9	99	1738-25-6	75
626-17-5	113	1746-01-6	124
626-38-0	50	1912-24-9	51
627-13-4	115	1918-02-1	113
628-63-7	50	1929-82-4	63
628-96-6	81	2039-87-4	63
630-08-0	59	2179-59-1	48
630-20-6	124	2234-13-1	106
638-21-1	111	2238-07-5	74
680-31-9	88	2425-06-1	58
681-84-5	100	2426-08-6	56
684-16-2	88	2551-62-4	121
768-52-5	93	2698-41-1	61
822-06-0	88	2699-79-8	122
944-22-9	84	2885-00-9	107
999-61-1	90	2917-26-2	88
1120-71-4	114	2921-88-2	63
1189-85-1	56	2971-90-6	64
1300-73-8	133	3033-62-3	76
1303-00-0	85	3333-52-6	125
1303-43-4	53	3383-96-8	123
1303-86-2	53	3689-24-5	123
1303-96-4	53	4016-14-2	92
1304-82-1	53	4098-71-9	92
1305-62-0	57	4685-14-7	108
1305-78-8	57	5124-30-1	72
1309-37-1	91	5332-52-5	130
1310-58-3	114	5714-22-7	122
1310-73-2	120	6032-29-7	91
1314-13-2	134	6423-43-4	116
1314-62-1	131	6923-22-4	102
1314-80-3	112	7429-90-5	49
1317-35-7	95	7439-92-1	93
1317-65-3	57, 94, 95	7439-96-5	95
1317-95-9	118	7439-97-6	95
1319-77-3	66	7439-98-7	102
1321-64-8	109	7440-02-0	104
1321-65-9	128	7440-06-4	114
1321-74-0	78	7440-16-6	117
1330-20-7	133	7440-21-3	119
1332-21-4	51	7440-22-4	119
1332-29-2	126	7440-25-7	123
1333-86-4	58	7440-28-0	125
1335-87-1	87	7440-31-5	126
1335-88-2	124	7440-33-7	130
1338-23-4	99	7440-36-0	50
1344-95-2	57	7440-38-2	51
1455-21-6	106	7440-39-3	51
1477-55-0	133	7440-41-7	53

7440-43-9	56	7803-52-3	120
7440-47-3	64	7803-62-5	119
7440-48-4	64	8001-35-2	60
7440-50-8	65	8002-05-9	110
7440-58-6	86	8002-74-2	108
7440-61-1	131	8003-34-7	116
7440-65-5	133	8006-61-9	85
7440-67-7	134	8006-64-2	130
7440-74-6	90	8008-20-6	93
7446-09-5	121	8012-95-1	107
7553-56-2	91	8014-95-7	122
7572-29-4	70	8022-00-2	98
7580-67-8	94	8030-30-6	103
7616-94-6	110	8032-32-4	132
7631-90-5	120	8052-41-3	121
7637-07-2	53	8052-42-4	51
7646-85-7	133	8065-48-3	68
7647-01-0	89	9004-34-6	59
7664-38-2	112	9005-25-8	120
7664-39-3	90	9014-01-1	121
7664-41-7	49	10024-97-2	106
7664-93-9	122	10025-67-9	122
7681-57-4	120	10025-87-3	112
7697-37-2	104	10026-13-8	112
7699-41-4	118	10028-15-6	108
7719-09-7	125	10035-10-6	89
7719-12-2	113	10049-04-4	60
7722-84-1	90	10102-43-9	104
7722-88-5	125	10102-44-0	105
7723-14-0	112	10210-68-1	65
7726-95-6	54	10294-33-4	53
7727-43-7	51	11097-69-1	61
7738-94-5	63	12001-26-2	119
7773-06-0	50	12070-12-1	130
7778-18-9	57	12079-65-1	95
7782-41-4	84	12108-13-3	101
7782-42-5	86	12125-02-9	49
7782-49-2	118	12179-04-3	53
7782-50-5	60	12415-34-8	78
7782-65-2	85	12604-58-9	84
7783-06-4	90	13121-70-5	68
7783-07-5	90	13397-24-5	86
7783-41-7	108	13463-39-3	104
7783-54-2	105	13463-40-6	91
7783-60-0	122	13463-67-7	126
7783-79-1	118	13494-80-9	123
7783-80-4	123	13530-65-9	134
7784-42-1	51	13838-16-9	78
7786-34-7	112	14464-46-1	118
7789-30-2	54	14484-64-1	83
7790-91-2	60	14807-96-6	119, 122
7803-51-2	112	14808-60-7	118

14977-61-8	64	25639-42-3	101
15468-32-3	118	26140-60-3	123
16065-83-1	63	26471-62-5	127
16219-75-3	83	26499-65-0	113
16752-77-5	96	26628-22-8	120
16842-03-8	65	26952-21-6	92
17702-41-9	68	34590-94-8	77
17804-35-2	52	35400-43-2	122
18540-29-9	63	53469-21-9	61
19287-45-7	70	55720-99-5	60
19624-22-7	108	59355-75-8	97
20816-12-0	107	60676-86-0	119
21087-64-9	102	61788-32-7	90
21351-79-1	59	61790-53-2	118
22224-92-6	83	62765-93-9	103
22541-79-3	63	65996-93-2	64
25013-15-4	132	65997-15-1	114
25321-14-6	76	68476-85-7	94
25551-13-7	129	68956-68-3	131
25551-28-4	103	77536-68-6	127

Notes

Notes

Notes