Appendix B – Restricted Chemicals

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
2-Butanone (MEK)	CH3COC2H5	78-93-3A	0	1	3	
Acetamide	CH3CONH2	60-35-5	1	3	1	
Acetanilide	CH3CONHC6H5	103-84-4	0	3	1	
Acetic Acid	CH3COOH	64-19-7A	1	2	2	
Acetic Anhydride	(CH3CO)2O	108-24-7	1	3	2	W
Acetone	CH3COCH3	67-64-1	0	1	3	
Acetyl Halides						
Acetylcholine Bromide	CH3CO2C2H4N(C	66-23-9	0	2	0	
Acridine Orange	UNDEFINED	10127-02-	0	2	0	
Adipoyl Chloride	ClOC(CH2)4COCl	111-50-2	0	2	2	
Alizarin Red	UNDEFINED	130-22-3	0	2	1	
Alkyl Aluminum Chloride						
Aluminum	Al	7429-90-5	1	0	1	
Aluminum Acetate	Al(C2H3O2)2OH	142-03-0	1	1	0	
Aluminum Bromide	AlBr3	7727-15-3	1	3	1	
Aluminum Chloride, Hydrate	ALCL3*6H2O	7784-13-6	0	3	0	
Aluminum Fluoride	AlF3	7784-18-1	0	2	0	
Aluminum Hydroxide	Al(OH)3*3H2O	21645-51-	1	1	0	
Aluminum Nitrate	Al(NO3)3*9H2O	7784-27-2	0	1	0	OX
Aluminum Tetrahydroborate						

Appendix B – Restricted Chemicals

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Ammonia, Anhydrous (use restrictions)	NH3	7664-41-7	0	3	1	
Ammonia, Liquid	NH3	1336-21-6	0	3	1	
Ammonium Acetate	NH4C2H3O2	631-61-8	1	1	1	
Ammonium Bicarbonate	NH4HCO3	1066-33-7	1	1	0	
Ammonium Bichromate	(NH4)2Cr2O7	7789-09-5	1	1	1	OX
Ammonium Bromide	NH4Br	12124-97-	0	2	0	
Ammonium Carbonate	NH4CO3	10361-29-	2	2	0	
Ammonium Chloride	NH4Cl	12125-02-	0	2	0	
Ammonium Chromate	(NH4)2CrO4	7788-98-9	1	1	1	OX
Ammonium Fluoride	NH4F	12125-01-	0	3	0	
Ammonium Hydroxide	NH4OH	1336-21-6	0	3	1	
Ammonium Iodide	NH4I	12027-06-	1	2	0	
Ammonium Molybdate	(NH4)6Mo7O24*4H	12054-85-	1	2	0	
Ammonium Nitrate (500 g limit)	NH4NO3	6484-52-2	3	0	0	OX
Ammonium Oxalate	(NH4)2C2O4*H2O	6009-70-7	1	3	0	
Ammonium Phosphate, Dibasic	(NH4)2H2PO4	7783-28-0	1	2	0	
Ammonium Phosphate, Monobasic	NH4H2PO4	7722-76-1	0	2	0	
Ammonium Sulfate	(NH4)2SO4	7783-20-2	0	3	0	
Ammonium Sulfide	(NH4)2S*H2O	12135-76-	0	3	3	

Appendix B – Restricted Chemicals

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Ammonium Tartrate	(NH4)2C4H4O6	3164-29-2	0	2	0	
Ammonium Thiocyanate	NH4SCN	1762-95-4	1	2	1	
Amyl Acetate	CH3COOC5H11	628-63-7	0	1	3	
Amyl Alcohol(N)	CH3(CH2)3CH2OH	71-41-0A	0	1	3	
Aniline	C6H5NH2	62-53-3	0	3	2	
Aniline Hydrochloride	C6H5NH2*HCL	142-04-1	3	1		
Anisoyl Chloride	C8H7ClO2	100-07-2	0	3	2	
Barium Acetate	Ba(C2H3O2)H20	543-80-6	0	2	0	
Barium Carbide						
Barium Chloride,						
Hydrate	BaCl2*2H2O	10326-27-	0	3	0	
Barium Nitrate	Ba(NO3)2	10022-31-	0	1	0	OX
Benzaldehyde	C6H5CHO	100-52-7	0	2	2	
Benzene Phosphorus Dichloride						
Benzoic Acid	C6H5COOH	65-85-0	2	1		
Benzyl Chloride	C6H5CH2Cl	100-44-7	1	3	2	
Benzyl Sodium						
Benzylamine	C6H5CH2NH2	100-46-9	0	3	2	
Beryllium Tetrahydroborate						
Biphenyl (Diphenyl)	C6H5C6H5	92-52-4	0	2	1	
Bismuth Pentafluoride	BiF5	7787-62-4	0	1	0	
Boric Acid	H3BO3	10043-35-	0	2	0	

Appendix B – Restricted Chemicals

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Boron Bromodiiodide						
Boron Dibromoiodide						
Boron Phosphide						
Boron Trichloride						
Bromine Monofluoride						
Bromine Water	Br2 + H2O	7726-95-6				OX
Bromobenzene	C6H5Br	108-86-1	0	2	2	
Bromodiethylaluminum						
Bromoform	CHBr3	75-25-2	0	3	0	
Butanol (N-Butyl Alcohol)	CH3(CH2)3OH	71-36-3	0	1	3	
Butyric Acid	CH3CH2CH2COH	107-92-6	0	3	2	
Calcium (100 g limit)	Ca	7440-70-2	2	3	1	W
Calcium Bromide	CaBr2	7789-41-5	1	1	0	
Calcium Hypochlorite	Ca(OCl)2	7778-54-3	1	3	0	OX
Calcium Nitrate Tetrahydrate	Ca(NO3)2*4H2O	13477-34-	1	2	0	OX
Calcium Phosphide						
Camphor (+/-)	C10H16O	21368-68-	0	0	2	
Carbon Disulfide (BI)	CS2	75-15-0	0	2	3	
Ceric (IV) Sulfate	Ce(SO4)2*4H2O	13590-82-	0	3	0	OX

Appendix B – Restricted Chemicals

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Cesium Amide						
Cesium Phosphide						
Chlorine Monofluoride						
Chlorine Pentafluoride						
Chloroacetic Acid	C2H3ClO2	79-11-8B	0	3	1	
Chloroacetyl Chloride	C2H2Cl2O/ClCH2C	79-04-9	1	3	0	
Chlorobenzene	C6H5Cl	108-90-7	0	2	3	
Chlorodiisobutyl Aluminum						
Chlorophenyl Isocyanate	C7H4ClNO	3320-83-0				
Chromic Acid	CrO3	1333-82-0	1	3	0	OX
Chromium (IC) Nitrate	Cr(NO3)3*9H2O	7789-02-8	1	3	0	OX
Chromium Sulfate	Cr2(SO4)3*nH2O	10101-53-	0	2	0	
Chromium Trioxide	CrO3	1333-82-0	1	3	0	
Cobalt (ous) Nitrate	Co(NO3)2*6H2O	10026-22-	0	2	0	OX
Cupric Bromide, Anhydrous	CuBr2	7789-45-9	0	2	0	
Cyclohexane	CH2(CH2)4CH2	110-82-7	0	1	3	
Dichlorobenzene	C6H4Cl2	106-46-7B	0	2	2	
Dichloroethane	C2H4Cl2	107-06-2B	0	2	3	
Dichloromethane	CH2Cl2	75-09-2A	0	2	1	

Appendix B – Restricted Chemicals

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Diethyl Aluminum Chloride	C4H10AlCl	96-10-6				
Diethyl Zinc	C4H10Zn	557-20-0				
Diisopropyl Beryllium						
Dimethyl Magnesium						
Diphenyl Diisocyanate						
Diphenylamine	(C6H5)2NH	122-39-4	0	3	1	
Ethanol	C2H5OH	64-17-5B	0	0	3	
Ethyl Acetate	CH3COOC2H5	141-78-6	0	1	3	
Ethyl Alcohol	C2H5OH	64-17-5A	0	0	3	
Ethyl Methacrylate	CH2CCH3COOC2	97-63-2	0	2	3	
Ethylene Dichloride	C2H4Cl2	107-06-2A	0	2	3	
Ethylenediamine	NH2CH2CH2NH2	107-15-3	0	3	2	
Faa Solution	UNDEFINED	NA14	0	2	3	
Fehlings Solution A	UNDEFINED	7758-99-8	1	3	0	
Fehlings Solution B	UNDEFINED	NA15	1	3	0	
Ferric Chloride, Anhydrous	FeCl3	7705-08-0	1	3	0	
Ferric Nitrate	Fe(NO3)3*9H2O	7782-61-8	1	1	0	OX
Fluorine Monoxide						
Fluorosulfonic Acid						

Appendix B – Restricted Chemicals

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Formalin	CH2O	50-00-0B	0	2	2	
Formic Acid	HCOOH	64-18-6	0	3	2	
Gasoline	UNDEFINED	8006-61-9	0	1	3	
Glutaraldehyde	OCH(CH3)3CHO	111-30-8	1	3	0	
Gold Acetylide						
Hematoxylin	C16H14O6*3H2O	517-28-2	1	1	0	
Heptane, N-	CH3(CH2)5CH3	142-82-5	0	1	3	
Hexamethylene Diisocyanate	C8H12N2O2	822-06-0	0	1	2	W
Hexamethylenediamine	H2N(CH2)6NH2	124-09-4	0	3	2	
Hexane, N-	CH3(CH2)4CH3	110-54-3	0	1	3	
Hydriodic Acid	HI	10034-85-	0	3	0	
Hydrobromic Acid	HBr	10035-10-	0	3	0	
Hydrochloric Acid	HCl	7647-01-0	0	3	0	
Hydrogen Peroxide (30% or less)	H2O2		1	3	0	OX
Hydroquinone	C6H4(OH)2	123-31-9	0	2	1	
Hydroxylamine						
Hydrochloride	NH2OH*HCl	5470-11-1	1	3	1	
Iodine	I2	7553-56-2	1	3	0	OX
Iodine Monochloride	ICl	7790-99-0	1	3	0	

Appendix B – Restricted Chemicals

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Iron	Fe	7439-89-6	1	3	1	
Isoamyl Alcohol	(CH3)2CHCH2CH2	123-51-3A	0	1	2	
Isobutyl Alcohol	(CH3)2CHCH2OH	78-83-1	0	1	3	
Isopentyl Alcohol	(CH3)2CHCH2CH2	123-51-36	0	1	3	
Isopropyl Alcohol	(CH3)2CHOH	67-63-0	0	1	3	
Kerosene	UNDEFINED	8008-20-6	0	0	2	
Lead Nitrate	Pb(NO3)2	10099-74-	0	1	0	OX
Lead Oxide, Red	Pb3O4	1314-41-6	1	3	1	OX
Lead Peroxide (DI)	PbO2	1309-60-0	1	3	0	OX
Lithium Amide						
Lithium Bromide	LiBr	7550-35-8	0	2	0	
Lithium Ferrosilicon						
Lithium Silicon						
Lithium Sulfate	Li2SO4*H2O	10102-25-	0	2	0	
Lye	NaOH	1310-73-2	1	3	0	
Magnesium (ribbon)	Mg	7439-95-4	2	0	1	W
Magnesium Nitrate	Mg(NO3)2*6H2O	13446-18-	0	1	0	OX
Manganese Carbonate	MnCO3	598-62-9	1	0	0	
Manganese Dioxide	MnO2	1313-13-9	1	2	0	OX
Manganese Nitrate (ous)	Mn(NO3)2*6H2O	10377-66-	0	3	0	OX

Appendix B – Restricted Chemicals

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Manganese Oxide	MnO2	1313-13-9	0	1	0	
Methyl Alcohol	CH3OH	67-56-1	0	1	3	
Methyl Aluminum Sesquibromide		C3H9Al2Br3				
Methyl Aluminum Sesquichloride	C3H9Al2Cl3	12542-85-				
Methyl Ethyl Ketone (MEK)	CH3COC2H5	78-93-3B	0	1	3	
Methyl Magnesium Bromide	CH3BrMg	75-16-1				
Methyl Magnesium Chloride	CH3ClMg	676-58-4				
Methyl Magnesium Iodide	CH3IMg					
Methylene Chloride	CH2CL2	75-09-2B	0	2	1	
Naphthalene	C10H8	91-20-3	0	2	2	
Napthol-1 (A)	C10H7OH	90-15-3	1	3	1	
N-Butyl Alcohol	C6H10O	71-36-3B	0	1	3	
N-Butyl Lithium						
Nickel Antimonide						
Nickel(II) Nitrate	Ni(NO3)2*6H2O	13478-00-	1	2	0	
Nickel(II) Sulfate	NiSO4*6H2O	10101-97-	0	2	0	
Nitric Acid	HNO3	7697-37-2	0	3	0	OX
Nitrobenzene	C6H5NO2	98-95-3	1	3	2	
Nitrogen	N2	7727-37-9	0	3	0	

Appendix B – Restricted Chemicals

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Octyl Alcohol	CH3(CH2)6CH2OH	111-87-5	0	1	2	
O-Dichlorobenzene	C6H4Cl2	95-50-1	0	2	2	
Oxalic Acid, Hydrate	H2C2O4*2H2O	6153-56-6	0	2	1	
Oxygen	O2	7782-44-7	0	3	0	OX
P-Dichlorobenzene	C6H4Cl2	106-46-7	0	2	2	
Pentyl Alcohol (Amyl)	CH3(CH2)4OH	71-41-0B	0	1	3	
Petroleum Ether (500 ml limit)	UNDEFINED	8032-32-4	0	1	4	
Phosphoric Acid	H3PO4	7664-38-2	0	3	0	
Phthalic Acid	C6H4(COOH)2	88-99-3	1	0	1	
Polyphenyl Polymethyl Isouanta						
Polyvinyl Alcohol	CH2CH(OH)	9002-89-5	0	0	2	
Potassium Bromate	KBrO3	7758-01-2	0	2	0	OXPotassium
Chromate	K2CrO4	7789-00-6	1	3	0	OX
Potassium Dichromate	K2Cr2O7	7778-50-9	1	3	1	OX
Potassium Ferricyanide	K3Fe(CN)6	13746-66-	1	1	0	
Potassium Ferrocyanide	K4Fe(CN)6*3H2O	14459-95-	1	1	0	
Potassium Hydroxide	KOH	1310-58-3	1	3	0	
Potassium Iodate	KIO3	7758-05-6	1	1	0	OX
Potassium Nitrate	KNO3	7757-79-1	0	1	0	OX

Appendix B – Restricted Chemicals

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Potassium Permanganate	KMnO4	7722-64-7	0	1	0	OX
Potassium Persulfate	K2S2O8	7727-21-1	0	1	0	OX
Potassium Sulfide	K2S	1312-73-8	0	3	1	
Propane (use restrictions)	CH3CH2CH3	74-98-6	0	1	4	
Propionic Acid	C3H6O2	79-09-4	0	2	2	
Propyl Alcohol	C3H8O	71-23-8	0	1	3	
Pyridine	C5H5N	110-86-1	0	3	3	
Pyrosulfuryl Chloride						
Silver Nitrate	AgNO3	7761-88-8	0	1	0	OX
Silver Sulfate	Ag2SO4	10294-26-	0	2	0	
Sodium Bisulfite	NaHSO3	7631-90-5	1	1	0	
Sodium Chromate	Na2CrO4	7775-11-3	1	3	0	OX
Sodium Cobaltinitrite	Na3Co(NO2)6	13600-98-	0	2	0	OX
Sodium Dichromate, Hydrate	Na2Cr2O7*2H2O	7789-12-0	1	1	0	
Sodium Fluoride	NaF	7681-49-4	0	3	0	
Sodium Hydroxide	NaOH	1310-73-2	1	3	0	
Sodium Hypochlorite	NaClO	7681-52-9	1	2	0	
Sodium Iodate	NaIO3	7681-55-2	1	1	0	OX
Sodium Iodide	NaI	7681-82-5	1	2	0	

Appendix B – Restricted Chemicals

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Sodium Meta-Bisulfite	Na2S2O5	7681-57-4	1	3	0	
Sodium Nitrate	NaNO3	7631-99-4	1	1	0	OX
Sodium Nitrite	NaNO2	7632-00-0	1	2	0	OX
Sodium Phosphate, Tribasic	Na3PO4*12H2O	7601-54-9	1	2	0	
Sodium Potassium Alloy						
Sodium Sulfide	Na2S*9H2O	1313-84-4	1	3	1	
Sodium Thiocyanate	NaSCN	540-72-7	1	3	0	
Sodium Thiosulfate	Na2S2O3*5H2O	10102-17-	1	0	0	
Stannic Chloride	SnCl4	7646-78-8	1	3	0	
Strontium Nitrate	Sr(NO3)2	10042-76-	0	1	0	OX
Sulfur Chloride	Cl2S2	10025-67-	1	2	1	
Sulfur Pentafluoride						
Sulfuric Acid (<10%)	H2SO4	7664-93-9	0	3	0	
Sulfuric Acid (>10%) (2.5 l limit)	H2SO4	7664-93-9	2	3	0	W
T-Butanol	(CH3)3COH	75-65-0	0	1	3	
Terpineol	C10H17OH	98-55-5	0	0	2	
Thiophosphoryl Chloride	Cl3SP	3982-91-0	0	3	0	
Tin	Sn	7440-31-5	1	1	1	
Toluene	C7H8	108-88-3	0	2	3	

Appendix B – Restricted Chemicals

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Toluene Diisocyanate	C9H6N2O2	584-84-9	1	3	1	
Toluidine Blue	CH3C6H4NH2	95-53-4	0	3	2	
Trichloroethane-1,1,1	C2H3Cl3	71-55-6	1	3	1	
Trichloroethylene	C2HCl3	79-01-6	0	2	1	
Triethanolamine	C6H15NO3	102-71-6	1	2	1	
Triethyl Stibine						
Trimethylpentane 2,2,4	C8H18	540-84-1	0	0	3	
Tri-N-Butyl Aluminum						
Trioctyl Aluminum						
Triphenyl Tetrazolium Chloride	C19H15N4Cl	298-96-4	1	2	1	
Tripropyl Stibine						
Trisodium Phosphate	Na3H3PO4	7601-54-9	1	2	0	
Trivinyl Stibine						
Tungsten	W	7440-33-7	1	1	2	
Turpentine	C10H16	8006-64-2	0	1	3	
Vanadium Trichloride	VCl3	7718-98-1				
Xylene	C8H10	1330-20-7	0	2	3	
Zinc (Powder)	Zn	7440-66-6	1	1	1	W
Zinc Acetylide						

Appendix B – Restricted Chemicals

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Zinc Nitrate (500 g limit)	Zn(NO3)2*6H2O	10196-18-	2	1	1	OX
Zinc Phosphide	Zn3P2	1314-84-7	1	3	3	