

## *Appendix A – Prohibited Chemicals*

<b>Name</b>	<b>Formula</b>	<b>CAS #</b>	<b>NFPA Reactive</b>	<b>NFPA Health</b>	<b>NFPA Flammable</b>	<b>NFPA Special</b>
2-Butanol (Sec-Butyl Alcohol)	C <sub>2</sub> H <sub>5</sub> CH(OH)CH <sub>3</sub>	78-92-2	0	1	3	
Acetal			0	2	3	
Acetaldehyde	CH <sub>3</sub> CHO	75-07-0	2	3	4	
Acetyl Chloride	CH <sub>3</sub> COCl	75-36-5	2	3	3	W
Acetyl Nitrate						
Acrolein	CH <sub>2</sub> CHCHO	107-02-8	3	4	3	
Acrylic Acid	H <sub>2</sub> CCHCO <sub>2</sub> H	79-10-7	2	2	2	
Acrylonitrile	CH <sub>2</sub> CHCN	107-13-1	2	4	3	
Alcohols (Allylic, Benzylic)						
Alkly-Substituted Cycloaliphatics						
Aluminum Hydrophosphide						
Aluminum Phosphide	AIP	20859-73-	2	4	4	W
Amatol						
Ammonal						
Ammonium Bromate						
Ammonium Chlorate						
Ammonium Hexanitrocobaltate						
Ammonium Nitrite						
Ammonium Perchlorate	NH <sub>4</sub> ClO <sub>4</sub>	7790-98-9	4	1	0	OX
Ammonium Periodate						
Ammonium Permanganate			3	0	0	OX
Ammonium Tetraperoxychromate						

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Antimony Compounds						
Arsenic And Arsenic Compounds						
Azides						
Azidocarbonyl Guanidine						
Barium	Ba	2	2	1		W
Barium Chlorate	Ba(ClO <sub>3</sub> ) <sub>2</sub> *H <sub>2</sub> O	13477-00-	1	2	0	OX
Barium Oxide (Anhydrous)	BaO	1304-28-5	2	3	0	
Barium Peroxide	BaO <sub>2</sub>	1304-29-6	0	1	0	OX
Benzene	C <sub>6</sub> H <sub>6</sub>	71-43-2	0	2	3	
Benzene Diazonium Chloride						
Benzotriazole	C <sub>6</sub> H <sub>5</sub> N <sub>3</sub>	95-14-7	0	2	1	
Benzoyl Peroxide	(C <sub>6</sub> H <sub>5</sub> CO) <sub>2</sub> O <sub>2</sub>	94-36-0	4	1	4	OX
Benzyl Alcohol	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub> OH	100-51-6	0	2	1	
Bismuth Nitrate	Bi(NO <sub>3</sub> ) <sub>3</sub> *5H <sub>2</sub> O	10035-06-	3	1	0	OX
Borane, Boranes, Diboranes						
Boron Tribromide			2	3	0	W
Boron Trifluoride			1	4	0	
Bromine Pentafluoride	BrF <sub>5</sub>	7789-30-2	3	4	0	W,O
Bromine Trifluoride			3	4	0	W,O
Butadiene	C <sub>4</sub> H <sub>6</sub> /CH <sub>2</sub> =(CH) <sub>2</sub> =CH	106-99-0	0	2	4	
Butenetroil Trinitrate						
Cadmium and Cadmium Compounds						
Calcium Nitrate, Anhydrous	Ca(NO <sub>3</sub> ) <sub>2</sub>	10124-37-	3	1	0	OX
Calcium Permanganate	Ca(MnO <sub>4</sub> ) <sub>2</sub>					
Carbon Tetrachloride	CCl <sub>4</sub>	56-23-5	0	3	0	
Chloral Hydrate	CCl <sub>3</sub> CH(OH) <sub>2</sub>	302-17-0				

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Chlorine	Cl <sub>2</sub>	7782-50-5	0	4	0	OX
Chlorine Dioxide	ClO <sub>2</sub>	10049-04-				OX
Chlorine Trifluoride			3	4	0	W,O
Chlorine Trioxide						
Chloroacetylene						
Chloroform	CHCl <sub>3</sub>	67-66-3	0		2	0
Chloropicrin	CCl <sub>3</sub> NO <sub>2</sub>	76-06-2	3	4	0	
Chloroprene						
Chlorotrifluoroethylene						
Chromium (IC) Chloride	CrCl <sub>3</sub> *6H <sub>2</sub> O	10060-12-	2	1	0	
Chromium (Powder)	Cr	7440-47-3	1	2	1	
Chromyl Chloride	CrO <sub>2</sub> Cl <sub>2</sub>	14977-61-	2	3	0	W
Cobalt (Powder)	Co	7440-48-4				
Colchicine	C <sub>22</sub> H <sub>25</sub> NO <sub>6</sub>	64-86-8	0	4	1	
Copper Acetylide						
Cumene	C <sub>6</sub> H <sub>5</sub> CH(CH <sub>3</sub> ) <sub>2</sub>	98-82-8	1	2	3	
Cycloheptanone	C <sub>7</sub> H <sub>12</sub> O	502-42-1	2	3		
Cyclohexanol	C <sub>6</sub> H <sub>11</sub> OH	108-93-0	1	2	2	
Cyclopentene	C <sub>5</sub> H <sub>8</sub>	142-29-0	1	1	3	
Diacetylene						
Diazidoethane						
Diazodinitrophenol						
Diazomethane	CH <sub>2</sub> N <sub>2</sub>	334-88-3				
Dicyclopentadiene	C <sub>10</sub> H <sub>12</sub>	77-73-6	1	1	3	
Diisopropyl Ether	C <sub>6</sub> H <sub>14</sub> O	108-20-3	1	2	3	
Dinitrophenol	C <sub>6</sub> H <sub>3</sub> OH(NO <sub>2</sub> ) <sub>2</sub>	51-28-5				
Dioxane	C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>	123-91-1	1	2	3	
Dipentaerythritol Hexanitrate						

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Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Disulfur Dinitride						
Divinyl Acetylene			3		3	
Divinyl Ether			2	2	4	
Ethyl Ether	(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> O	60-29-7A	1	1	4	
Ethyl Nitrite			4	3	4	
Ethylene Glycol Dimethyl						
Ether (Glyme)			0	1	2	
Ethylene Glycol Dinitrate	C <sub>2</sub> H <sub>4</sub> N <sub>2</sub> O <sub>6</sub>	628-96-6				
Ethylene Oxide	C <sub>2</sub> H <sub>4</sub> O	75-21-8	3	3	4	
Formaldehyde	CH <sub>2</sub> O	50-00-0A	0	3	2	
Furan			1	1	4	
Glycol Dinitrate	C <sub>2</sub> H <sub>4</sub> N <sub>2</sub> O <sub>6</sub>	628-96-6				
Glycol Monolactate Trinitrate						
Grignard Reagents (Ether Solvents)						
Guanyl Nitrosaminoguanyl Hydrazine						
Hexyl Alcohol	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>4</sub> CH <sub>2</sub> OH	111-27-3	0	1	2	
HMX			4	3		
Hydrazoic Acid						
Hydrofluoric Acid	HF	7664-39-3	0	4	0	
Hydrogen Peroxide (>30%)	H <sub>2</sub> O <sub>2</sub>	7722-84-1	1	3	0	OX
Hydrogen Peroxide (60%)	H <sub>2</sub> O <sub>2</sub>	7722-84-1	3	2	0	OX
Hydrogen Sulfide	H <sub>2</sub> S	7783-06-4	0	4	4	
Isopropyl Ether			1	1	3	
Lead Arsenate	Pb <sub>3</sub> (AsO <sub>4</sub> ) <sub>2</sub>	7784-40-9	0	2	0	
Lead Dinitride (Azide)	Pb <sub>3</sub> (N <sub>3</sub> ) <sub>2</sub>	13424-46-				
Lead Dinitrorescorcinatate (Styphnate)			4	3	4	
Lead Dioxide, Brown	PbO <sub>2</sub>	1309-60-0	3	3	0	OX
Lead Mononitrorescorcinatate						
Lithium Nitrate	LiNO <sub>3</sub>	7790-69-4	3	2	0	OX

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Lithium Nitride						
Lithium Peroxide						
Magnesium (except Mg ribbon & turnings)	Mg	7439-95-4	2	0	1	W
Magnesium Peroxide						
Mannitol Hexanitrate						
Mercury And Mercury Compounds (except in sealed devices)						
Methyl Acetylene	C3H4	74-99-7	2	2	4	
Methyl Cyclopentane	C6H12	96-37-7	0	2	3	
Methyl Isocyanate	CH3NCO	624-83-9	2	4	3	W
Methyl Methacrylate, Monomer	C5H8O2	80-62-6	2	2	3	
M-Trinitroresol						
Nessler's Reagent (Mercury Compound)	Hg+KI+NaOH	NA26				
Nicotine	C10H14N2	54-11-5	0	4	1	
Nitroglycerin			4	2	2	
Nitrosoguanidine						
Osmic Acid	OsO4	20816-12-	0	4	0	
Osmium Tetroxide	OsO4	20816-12-	0	4	0	
O-Toluidine	C7H9N	95-53-4	0	2	3	
Pentaerythritol Tetranitrate (PETN)		78-11-5				
Perchloric Acid	HClO4	7601-90-3	3	3	0	OX
Phenol	C6H6O	108-95-2	0	4	2	
Phenyl Thiourea	C7H8N2S	103-85-5A	0	4	0	
Phosphorus Halides and Oxides						
Phosphorus, Phosphides						

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Phthalic Anhydride, Picrates, Picramide, and Picryl Compounds.	C8H4O3	85-44-9	2	3	1	
Picric Acid	C6H3N3O7	88-89-1	4	3	4	
P-Nitrophenol	NO2C6H4OH	100-02-7	2	3	1	
Polyvinyl Nitrate						
Potassium Amide						
Potassium Cyanide	KCN	151-50-8	0	3	0	
Potassium Dinitrobenzofuroxan						
Potassium Nitrite	KNO2	7758-09-0	3	2	0	OX
Potassium Perchlorate	KClO4	7778-74-7	2	1	0	
Potassium Periodate	KIO4	7790-21-8	3	2	0	OX
Potassium Peroxide	KO2	12030-88-	3	3	0	
Potassium Superoxide	KO2	12030-88-	3	3	0	
RDX		121-82-4				
Sec-Butyl Alcohol (2-Butanol)	C4H10O	78-92-2A	0	1	3	
Silanes and Chlorosilanes						
Silicon Tetrachloride			2	3	0	W
Silver Acetylide						
Silver Cyanide	AgCN	506-64-9	1	3	0	
Silver Dinitrorescorcinat (Styphnate)						
Silver Fulminate (Cyanate)	AgOCN	3315-16-0	0	1	0	
Silver Nitride						
Silver Oxalate						
Silver Tetrazene						
Sodamide	H2NNa	7782-92-5	2	2	3	W
Sodium Amide	H2NNa	7782-92-5	2	2	3	W
Sodium Arsenate	Na3AsO4*12H2O	7778-43-0	0	3	0	

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Sodium Arsenite	NaAsO <sub>2</sub>	7784-46-5	0	3	0	
Sodium Chlorate	NaClO <sub>3</sub>	7775-09-9	2	1	0	OX
Sodium Chlorite			1	1	0	OX
Sodium Cyanide	NaCN	143-33-9	1	3	0	
Sodium Dithionite	Na <sub>2</sub> S <sub>2</sub> O <sub>4</sub>	7775-14-6	2	3	1	W
Sodium Hydrosulfite	Na <sub>2</sub> S <sub>2</sub> O <sub>4</sub> *2H <sub>2</sub> O	7775-14-6	2	2	1	
Sodium Methylate	CH <sub>3</sub> ONa	124-41-4	2	3	3	W
Sodium Perborate	UNDEFINED	7632-04-4	0	3	0	
Sodium Perchlorate			2	2	0	W,O
Sodium Permanganate	NaMnO <sub>4</sub>	10101-50-	2	2	1	OX
Sodium Peroxide	Na <sub>2</sub> O <sub>2</sub>	1313-60-6	2	3	0	W,O
Strontium Perchlorate		13450-97-				
Styrene Monomer	C <sub>8</sub> H <sub>8</sub>	100-42-5	2	2	3	
Sulfur Trioxide	SO <sub>3</sub>	7446-11-9	2	3	0	W
Sulfuryl Chloride (Sulfonyl)	Cl <sub>2</sub> O <sub>2</sub> S	7791-25-5	2	3	0	W
Sulfuryl Chloride Fluoride	ClFO <sub>2</sub> S	13637-84-	2	3	1	W
T-Butyl Hypochlorite						
Tetrafluoroethylene			3	2	4	
Tetrahydrofuran	C <sub>4</sub> H <sub>8</sub> O	109-99-9	1	2	3	
Tetrahydronaphthalene	C <sub>10</sub> H <sub>12</sub>	119-64-2	0	1	2	
Tetranitromethane		509-14-8				
Tetraselenium						
Tetranitride						
Tetrazene						
Tetryl		479-45-8	4	2	2	
Thallium Nitride						
Thermit	Fe <sub>2</sub> O <sub>3</sub> + Al	69012-31-	0	0	0	

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Thermite Igniting Mixture Thiocarbonyl	Al	Unknown	1	0	1	
Tetrachloride	CCl4S	594-42-3	2	3	0	
Thionyl Chloride	SOCI2	7719-09-7	2	4	0	W
Titanium (Powder)	Ti	7440-32-6	2	1	1	
Titanium Tetrachloride			2	3	0	
Triethyl Aluminum		97-93-8				
Triethyl Arsine						
Triisobutyl Aluminum		100-99-2				
Trimethyl Aluminum		75-24-1				
Trinitroanisole						
Trinitrobenzene			4	2	4	
Trinitrobenzoic Acid						
Trinitronaphthalene						
Trinitroresorcinol						
Trinitrotoluene	C7H5N3O6	118-96-7	4	2	4	
Trisilyl Arsine						
Uranium Compounds						
Uranyl Acetate	UO2(C2H3O2)2	541-09-3	0	0	0	
Uranyl Nitrate	UO2(NO3)2.6H2O	10102-06-	0	1	0	
Urea Nitrate						
Vinyl Acetate	C4H6O2	108-05-4	2	2	3	
Vinyl Acetylene			3	2	4	
Vinyl Chloride	C2H3Cl	75-01-4	2	2	4	
Vinyl Ethers			2	2	4	
Vinylidene Chloride (1,1-DCE)	C2H2Cl2	75-35-4	2	2	4	
Zinc Peroxide						