

# **RULES AND REGULATIONS GOVERNING *SCHOOLS IN THE STATE OF COLORADO***

**6 CCR 1010-6**

**<http://www.cdphe.state.co.us/op/regs/consumer/101006schools.pdf>**

Adopted by the State Board of Health August 15, 1990, effective September 30, 1990  
Amendments to Chapters 9 effective September 30, 1998  
Amendments to Chapters 8 effective March 2, 2002  
Amendments to Chapters 1, 3, 4, 5, 6, 7, 8, 9 and 10  
effective April 30, 2003 (emergency rules)  
Amendments to Chapter 1, 3, 9 adopted July 20, 2005, effective October 2, 2005



**Authority:**  
**SECTIONS 25-1.5-101(1)(a), (h), (k) and (l), 25-1-102(1)(a) and  
(d), 25-1-108(1)(c)(I) and 25-5-508  
COLORADO REVISED STATUTE**

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**Chapter Eight**  
**Laboratory, Industrial, Art, And Vocational Hazards**

**General**

- 8-101 Provisions shall be made for the protection of students engaging in arts, crafts, industrial arts, physical sciences, vocational, educational or any activities where hazardous chemicals, hazardous devices or hazardous equipment are used. These provisions include the development and posting of operating instructions, regulations and procedures.
- 8-102 Toxic or hazardous materials shall be stored in approved laboratory containers, separated by reactive group and stored in a ventilated, locked, fire-resistant area or cabinet. The ventilation requirement of this section may not be required where minimum quantities of such materials are stored for daily use.
- 8-103 Containers of chemicals, poisons, corrosive substances and flammable liquids shall be clearly labeled with the name of the material and the date the material entered the school.
- 8-104 Prohibited chemicals are those chemicals that pose an inherent, immediate and potentially life threatening risk, injury or impairment due to toxicity or other chemical properties to the students, staff or other occupants of the school. These chemicals are prohibited from use and/or storage at the school and the school is prohibited from purchasing or accepting donations of such chemicals. Prohibited chemicals are listed in Appendix A to this regulation.
- 8-105 Restricted chemicals are those chemicals that are restricted by use, and/or quantities. If restricted chemicals are present at the school, each chemical shall be addressed in the school's written emergency plan as addressed in sections 8-112 and 8-113 of these regulations. Restricted chemicals are listed in Appendix B to this regulation.
- 8-106 Restricted chemicals (demonstration use only) are a subclass in the restricted chemical lists that are limited to instructor demonstration. Students may not participate in the handling or preparation of restricted chemicals as part of a demonstration. If restricted chemicals (demonstration use only) are present at the school, each chemical shall be addressed in the school's written emergency plan as addressed in sections 8-112 and 8-113 of these regulations. Demonstration only chemicals are listed in Appendix B2 to this regulation.
- 8-107 Exposure to noise, or toxic liquids, dusts, gases, mists, fumes or vapors or other hazards shall be controlled to avoid health hazards.

- 8-108 All chemicals, solvents, and hazardous substances shall be inventoried by the school a minimum of once a year. The inventory shall include the name of the compound, the amount, and the date it entered the school. A copy of the inventory shall be kept on file in a location away from the areas where the aforementioned materials are stored.
- 8-109 A current material safety data sheet shall be provided for all poisonous, toxic, or hazardous substances and shall be available for review upon request.
- 8-110 In the absence of more stringent guidelines the 2000 National Fire Protection Association Code 30 Flammable and Combustible Liquids Code and 2000 National Fire Protection Association Code 45 Fire Protection for Laboratories Using Chemicals shall be used as guidelines for the proper storage, handling and use of chemicals in the school.
- 8-111 Refrigerators used for flammable compounds shall be prominently marked to indicate they meet the appropriate design requirements for safe storage of flammable liquids.
- 8-112 A written plan for response to and cleanup of chemical spills shall be provided by the school. A copy of the plan shall be kept on file in a location away from the areas where chemicals are stored.
- 8-113 A written plan that explains the proper storage, handling and disposal procedures for all poisonous, toxic or hazardous substances shall be on file in each school in a location away from the areas where these substances are stored and shall be available for review upon request.
- 8-114 A list of first aid procedures for accidental poisoning shall be posted. The telephone number and location of the nearest poison control center shall be posted near the telephone.
- 8-115 The storage, preparation, and consumption of food and drink is prohibited in any area where there are poisonous, toxic or hazardous substances.
- 8-116 Glassware shall be properly constructed and designed for its intended use and shall be handled and stored in a safe manner.
- 8-117 Aspirators or suction bulbs shall be used for drawing liquids into pipets. The mouth must not be used directly on the pipets.

- 8-118 Eye protection, that meet the American National Standards Institute 1989 Z87.1 Standard – *Practice for Occupational/Education Eye and Face Protection* must be worn by all students participating in, observing, or in close proximity to any experiment or activity which could result in eye injury. Eye protection glasses, goggles, face shields, and similar eye protection devices shall be issued clean and properly sanitized and stored in a protected place.
- 8-119 An easily accessible fire blanket must be provided in each laboratory or other area where an open flame is used.
- 8-120 Where there is exposure to skin contamination with poisonous, infectious or irritating materials, a hand washing facility shall be available.
- 8-121 An easily accessible operational eye wash fountain must be provided in each laboratory or other areas where corrosives or irritating chemicals are used. The eye wash fountain shall be clean and must be tested annually. The use of portable eye wash bottles as substitutes is not permitted.
- 8-122 An easily accessible operational safety shower, capable of providing continuous flowing water, shall be provided for each laboratory or other areas where corrosive or irritating chemicals are used. The safety shower can be centrally located so as to serve more than one area if doors are not locked, and convenient prompt access is available.
- 8-123 Master gas valves and electric shut-off switches shall be provided for each laboratory or areas where power equipment is used.
- 8-124 All emergency and safety equipment including master valves, shut off switches, eye wash fountains, safety showers, fire extinguishers (appropriate for the intended use), and fire-alarm pull stations and other similar equipment shall be tested at least once annually and labeled for high visibility.
- 8-125 Use of X-ray machines and other electronic devices producing ionizing or non-ionizing radiation and radioactive materials and equipment shall conform to the Colorado Department of Public Health and Environment Rules and Regulations Pertaining to Radiation Control, 6 CCR § 1007-1.

### **Ventilation**

- 8-201 All areas shall be adequately ventilated so that exposures to hazardous or toxic materials are maintained to a safe level. In the absence of more stringent guidelines the American Conference of Governmental Industrial Hygienists 1989 Threshold

Limit Values and Biological Exposures Indices shall be used as a guideline to determine safe levels.

- 8-202 Local exhaust ventilation shall be provided so that contaminants are exhausted away from the student and not through the breathing zone.
- 8-203 Sufficient fume hood capacity ventilation shall be provided and shall be used for any activity producing hazardous toxic or noxious gases, mists, vapors, or dusts.
- a. Hoods must exhaust directly to the outside and shall be located a minimum of 10 feet from any building air-intakes or building openings.
  - b. Discharges from any exhaust hood must meet applicable Colorado Air Pollution Standards.
  - c. A minimum face velocity of 100 feet/minute for general laboratory hoods must be provided.
  - d. Air flow of fume hoods must be tested at least once a school year.

## *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> C=CHCO <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)						
Alkyl-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						

## *Appendix A – Prohibited Chemicals*

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Antimony Compounds						
Arsenic And Arsenic Compounds						
Azides						
Azidocarbonyl Guanidine						
Barium	Ba	2	2	1		W
Barium Chlorate	Ba(ClO3)2*H2O	13477-00-	1	2	0	OX
Barium Oxide (Anhydrous)	BaO	1304-28-5	2	3	0	
Barium Peroxide	BaO2	1304-29-6	0	1	0	OX
Benzene	C6H6	71-43-2	0	2	3	
Benzene Diazonium Chloride						
Benzotriazole	C6H5N3	95-14-7	0	2	1	
Benzoyl Peroxide	(C6H5CO)2O2	94-36-0	4	1	4	OX
Benzyl Alcohol	C6H5CH2OH	100-51-6	0	2	1	
Bismuth Nitrate	Bi(NO3)3*5H2O	10035-06-	3	1	0	OX
Borane, Boranes, Diboranes						
Boron Tribromide			2	3	0	W
Boron Trifluoride			1	4	0	
Bromine Pentafluoride	BrF5	7789-30-2	3	4	0	W,O
Bromine Trifluoride			3	4	0	W,O
Butadiene	C4H6/CH2=(CH)2=CH	106-99-0	0	2	4	
Butenetroil Trinitrate						
Cadmium and Cadmium Compounds						
Calcium Nitrate, Anhydrous	Ca(NO3)2	10124-37-	3	1	0	OX
Calcium Permanganate	Ca(MnO4)2					
Carbon Tetrachloride	CCl4	56-23-5	0	3	0	
Chloral Hydrate	CCl3CH(OH)2	302-17-0				

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<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>
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						



## *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>
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

## *Appendix A – Prohibited Chemicals*

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
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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<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>
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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<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>
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	

## *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>
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						

## *Appendix B – Restricted 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-Butanone (MEK)	CH <sub>3</sub> COC <sub>2</sub> H <sub>5</sub>	78-93-3A	0	1	3	
Acetamide	CH <sub>3</sub> CONH <sub>2</sub>	60-35-5	1	3	1	
Acetanilide	CH <sub>3</sub> CONHC <sub>6</sub> H <sub>5</sub>	103-84-4	0	3	1	
Acetic Acid	CH <sub>3</sub> COOH	64-19-7A	1	2	2	
Acetic Anhydride	(CH <sub>3</sub> CO) <sub>2</sub> O	108-24-7	1	3	2	W
Acetone	CH <sub>3</sub> COCH <sub>3</sub>	67-64-1	0	1	3	
Acetyl Halides						
Acetylcholine Bromide	CH <sub>3</sub> CO <sub>2</sub> C <sub>2</sub> H <sub>4</sub> N(C	66-23-9	0	2	0	
Acridine Orange	UNDEFINED	10127-02-	0	2	0	
Adipoyl Chloride	ClOC(CH <sub>2</sub> ) <sub>4</sub> COCl	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(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> OH	142-03-0	1	1	0	
Aluminum Bromide	AlBr <sub>3</sub>	7727-15-3	1	3	1	
Aluminum Chloride, Hydrate	ALCL <sub>3</sub> *6H <sub>2</sub> O	7784-13-6	0	3	0	
Aluminum Fluoride	AlF <sub>3</sub>	7784-18-1	0	2	0	
Aluminum Hydroxide	Al(OH) <sub>3</sub> *3H <sub>2</sub> O	21645-51-	1	1	0	
Aluminum Nitrate	Al(NO <sub>3</sub> ) <sub>3</sub> *9H <sub>2</sub> O	7784-27-2	0	1	0	OX
Aluminum Tetrahydroborate						

## *Appendix B – Restricted 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>
Ammonia, Anhydrous (use restrictions)	NH <sub>3</sub>	7664-41-7	0	3	1	
Ammonia, Liquid	NH <sub>3</sub>	1336-21-6	0	3	1	
Ammonium Acetate	NH <sub>4</sub> C <sub>2</sub> H <sub>3</sub> O <sub>2</sub>	631-61-8	1	1	1	
Ammonium Bicarbonate	NH <sub>4</sub> HCO <sub>3</sub>	1066-33-7	1	1	0	
Ammonium Bichromate	(NH <sub>4</sub> ) <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	7789-09-5	1	1	1	OX
Ammonium Bromide	NH <sub>4</sub> Br	12124-97-	0	2	0	
Ammonium Carbonate	NH <sub>4</sub> CO <sub>3</sub>	10361-29-	2	2	0	
Ammonium Chloride	NH <sub>4</sub> Cl	12125-02-	0	2	0	
Ammonium Chromate	(NH <sub>4</sub> ) <sub>2</sub> CrO <sub>4</sub>	7788-98-9	1	1	1	OX
Ammonium Fluoride	NH <sub>4</sub> F	12125-01-	0	3	0	
Ammonium Hydroxide	NH <sub>4</sub> OH	1336-21-6	0	3	1	
Ammonium Iodide	NH <sub>4</sub> I	12027-06-	1	2	0	
Ammonium Molybdate	(NH <sub>4</sub> ) <sub>6</sub> Mo <sub>7</sub> O <sub>24</sub> *4H <sub>2</sub> O	12054-85-	1	2	0	
Ammonium Nitrate (500 g limit)	NH <sub>4</sub> NO <sub>3</sub>	6484-52-2	3	0	0	OX
Ammonium Oxalate	(NH <sub>4</sub> ) <sub>2</sub> C <sub>2</sub> O <sub>4</sub> *H <sub>2</sub> O	6009-70-7	1	3	0	
Ammonium Phosphate, Dibasic	(NH <sub>4</sub> ) <sub>2</sub> H <sub>2</sub> PO <sub>4</sub>	7783-28-0	1	2	0	
Ammonium Phosphate, Monobasic	NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>	7722-76-1	0	2	0	
Ammonium Sulfate	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	7783-20-2	0	3	0	
Ammonium Sulfide	(NH <sub>4</sub> ) <sub>2</sub> S*H <sub>2</sub> O	12135-76-	0	3	3	

## *Appendix B – Restricted 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>
Ammonium Tartrate	(NH <sub>4</sub> ) <sub>2</sub> C <sub>4</sub> H <sub>4</sub> O <sub>6</sub>	3164-29-2	0	2	0	
Ammonium Thiocyanate	NH <sub>4</sub> SCN	1762-95-4	1	2	1	
Amyl Acetate	CH <sub>3</sub> COOC <sub>5</sub> H <sub>11</sub>	628-63-7	0	1	3	
Amyl Alcohol(N)	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>3</sub> CH <sub>2</sub> OH	71-41-0A	0	1	3	
Aniline	C <sub>6</sub> H <sub>5</sub> NH <sub>2</sub>	62-53-3	0	3	2	
Aniline Hydrochloride	C <sub>6</sub> H <sub>5</sub> NH <sub>2</sub> *HCL	142-04-1	3	1		
Anisoyl Chloride	C <sub>8</sub> H <sub>7</sub> ClO <sub>2</sub>	100-07-2	0	3	2	
Barium Acetate	Ba(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> )H <sub>2</sub> O	543-80-6	0	2	0	
Barium Carbide						
Barium Chloride, Hydrate	BaCl <sub>2</sub> *2H <sub>2</sub> O	10326-27-	0	3	0	
Barium Nitrate	Ba(NO <sub>3</sub> ) <sub>2</sub>	10022-31-	0	1	0	OX
Benzaldehyde	C <sub>6</sub> H <sub>5</sub> CHO	100-52-7	0	2	2	
Benzene Phosphorus Dichloride						
Benzoic Acid	C <sub>6</sub> H <sub>5</sub> COOH	65-85-0	2	1		
Benzyl Chloride	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub> Cl	100-44-7	1	3	2	
Benzyl Sodium						
Benzylamine	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub> NH <sub>2</sub>	100-46-9	0	3	2	
Beryllium Tetrahydroborate						
Biphenyl (Diphenyl)	C <sub>6</sub> H <sub>5</sub> C <sub>6</sub> H <sub>5</sub>	92-52-4	0	2	1	
Bismuth Pentafluoride	BiF <sub>5</sub>	7787-62-4	0	1	0	
Boric Acid	H <sub>3</sub> BO <sub>3</sub>	10043-35-	0	2	0	



## *Appendix B – Restricted Chemicals*

Name	Formula	CAS #	NFPA Reactive	NFPA Health	NFPA Flammable	NFPA Special
Boron Bromodiiodide						
Boron Dibromiodide						
Boron Phosphide						
Boron Trichloride						
Bromine Monofluoride						
Bromine Water	Br <sub>2</sub> + H <sub>2</sub> O	7726-95-6				OX
Bromobenzene	C <sub>6</sub> H <sub>5</sub> Br	108-86-1	0	2	2	
Bromodiethylaluminum						
Bromoform	CHBr <sub>3</sub>	75-25-2	0	3	0	
Butanol (N-Butyl Alcohol)	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>3</sub> OH	71-36-3	0	1	3	
Butyric Acid	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> COH	107-92-6	0	3	2	
Calcium (100 g limit)	Ca	7440-70-2	2	3	1	W
Calcium Bromide	CaBr <sub>2</sub>	7789-41-5	1	1	0	
Calcium Hypochlorite	Ca(OCl) <sub>2</sub>	7778-54-3	1	3	0	OX
Calcium Nitrate Tetrahydrate	Ca(NO <sub>3</sub> ) <sub>2</sub> *4H <sub>2</sub> O	13477-34-	1	2	0	OX
Calcium Phosphide						
Camphor (+/-)	C <sub>10</sub> H <sub>16</sub> O	21368-68-	0	0	2	
Carbon Disulfide (BI)	CS <sub>2</sub>	75-15-0	0	2	3	
Ceric (IV) Sulfate	Ce(SO <sub>4</sub> ) <sub>2</sub> *4H <sub>2</sub> O	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*

<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>
Diethyl Aluminum Chloride	C <sub>4</sub> H <sub>10</sub> AlCl	96-10-6				
Diethyl Zinc	C <sub>4</sub> H <sub>10</sub> Zn	557-20-0				
Diisopropyl Beryllium						
Dimethyl Magnesium						
Diphenyl Diisocyanate						
Diphenylamine	(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> NH	122-39-4	0	3	1	
Ethanol	C <sub>2</sub> H <sub>5</sub> OH	64-17-5B	0	0	3	
Ethyl Acetate	CH <sub>3</sub> COOC <sub>2</sub> H <sub>5</sub>	141-78-6	0	1	3	
Ethyl Alcohol	C <sub>2</sub> H <sub>5</sub> OH	64-17-5A	0	0	3	
Ethyl Methacrylate	CH <sub>2</sub> CCH <sub>3</sub> COOC <sub>2</sub> H <sub>5</sub>	97-63-2	0	2	3	
Ethylene Dichloride	C <sub>2</sub> H <sub>4</sub> Cl <sub>2</sub>	107-06-2A	0	2	3	
Ethylenediamine	NH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> NH <sub>2</sub>	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	FeCl <sub>3</sub>	7705-08-0	1	3	0	
Ferric Nitrate	Fe(NO <sub>3</sub> ) <sub>3</sub> ·9H <sub>2</sub> O	7782-61-8	1	1	0	OX
Fluorine Monoxide						
Fluorosulfonic Acid						

## *Appendix B – Restricted 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>
Formalin	CH <sub>2</sub> O	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(CH <sub>3</sub> ) <sub>3</sub> CHO	111-30-8	1	3	0	
Gold Acetylide						
Hematoxylin	C <sub>16</sub> H <sub>14</sub> O <sub>6</sub> *3H <sub>2</sub> O	517-28-2	1	1	0	
Heptane, N-	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>5</sub> CH <sub>3</sub>	142-82-5	0	1	3	
Hexamethylene Diisocyanate	C <sub>8</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub>	822-06-0	0	1	2	W
Hexamethylenediamine	H <sub>2</sub> N(CH <sub>2</sub> ) <sub>6</sub> NH <sub>2</sub>	124-09-4	0	3	2	
Hexane, N-	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>4</sub> CH <sub>3</sub>	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)	H <sub>2</sub> O <sub>2</sub>		1	3	0	OX
Hydroquinone	C <sub>6</sub> H <sub>4</sub> (OH) <sub>2</sub>	123-31-9	0	2	1	
Hydroxylamine						
Hydrochloride	NH <sub>2</sub> OH*HCl	5470-11-1	1	3	1	
Iodine	I <sub>2</sub>	7553-56-2	1	3	0	OX
Iodine Monochloride	ICl	7790-99-0	1	3	0	

## *Appendix B – Restricted 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>
Iron	Fe	7439-89-6	1	3	1	
Isoamyl Alcohol	(CH <sub>3</sub> ) <sub>2</sub> CHCH <sub>2</sub> CH <sub>2</sub>	123-51-3A	0	1	2	
Isobutyl Alcohol	(CH <sub>3</sub> ) <sub>2</sub> CHCH <sub>2</sub> OH	78-83-1	0	1	3	
Isopentyl Alcohol	(CH <sub>3</sub> ) <sub>2</sub> CHCH <sub>2</sub> CH <sub>2</sub>	123-51-36	0	1	3	
Isopropyl Alcohol	(CH <sub>3</sub> ) <sub>2</sub> CHOH	67-63-0	0	1	3	
Kerosene	UNDEFINED	8008-20-6	0	0	2	
Lead Nitrate	Pb(NO <sub>3</sub> ) <sub>2</sub>	10099-74-	0	1	0	OX
Lead Oxide, Red	Pb <sub>3</sub> O <sub>4</sub>	1314-41-6	1	3	1	OX
Lead Peroxide (DI)	PbO <sub>2</sub>	1309-60-0	1	3	0	OX
Lithium Amide						
Lithium Bromide	LiBr	7550-35-8	0	2	0	
Lithium Ferrosilicon						
Lithium Silicon						
Lithium Sulfate	Li <sub>2</sub> SO <sub>4</sub> *H <sub>2</sub> O	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(NO <sub>3</sub> ) <sub>2</sub> *6H <sub>2</sub> O	13446-18-	0	1	0	OX
Manganese Carbonate	MnCO <sub>3</sub>	598-62-9	1	0	0	
Manganese Dioxide	MnO <sub>2</sub>	1313-13-9	1	2	0	OX
Manganese Nitrate (ous)	Mn(NO <sub>3</sub> ) <sub>2</sub> *6H <sub>2</sub> O	10377-66-	0	3	0	OX

## *Appendix B – Restricted 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>
Manganese Oxide	MnO <sub>2</sub>	1313-13-9	0	1	0	
Methyl Alcohol	CH <sub>3</sub> OH	67-56-1	0	1	3	
Methyl Aluminum Sesquibromide		C <sub>3</sub> H <sub>9</sub> Al <sub>2</sub> Br <sub>3</sub>				
Methyl Aluminum Sesquichloride	C <sub>3</sub> H <sub>9</sub> Al <sub>2</sub> Cl <sub>3</sub>	12542-85-				
Methyl Ethyl Ketone (MEK)	CH <sub>3</sub> COC <sub>2</sub> H <sub>5</sub>	78-93-3B	0	1	3	
Methyl Magnesium Bromide	CH <sub>3</sub> BrMg	75-16-1				
Methyl Magnesium Chloride	CH <sub>3</sub> ClMg	676-58-4				
Methyl Magnesium Iodide	CH <sub>3</sub> IMg					
Methylene Chloride	CH <sub>2</sub> CL <sub>2</sub>	75-09-2B	0	2	1	
Naphthalene	C <sub>10</sub> H <sub>8</sub>	91-20-3	0	2	2	
Napthol-1 (A)	C <sub>10</sub> H <sub>7</sub> OH	90-15-3	1	3	1	
N-Butyl Alcohol	C <sub>6</sub> H <sub>14</sub> O	71-36-3B	0	1	3	
N-Butyl Lithium						
Nickel Antimonide						
Nickel(II) Nitrate	Ni(NO <sub>3</sub> ) <sub>2</sub> *6H <sub>2</sub> O	13478-00-	1	2	0	
Nickel(II) Sulfate	NiSO <sub>4</sub> *6H <sub>2</sub> O	10101-97-	0	2	0	
Nitric Acid	HNO <sub>3</sub>	7697-37-2	0	3	0	OX
Nitrobenzene	C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub>	98-95-3	1	3	2	
Nitrogen	N <sub>2</sub>	7727-37-9	0	3	0	

## *Appendix B – Restricted 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>
Octyl Alcohol	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>6</sub> CH <sub>2</sub> OH	111-87-5	0	1	2	
O-Dichlorobenzene	C <sub>6</sub> H <sub>4</sub> Cl <sub>2</sub>	95-50-1	0	2	2	
Oxalic Acid, Hydrate	H <sub>2</sub> C <sub>2</sub> O <sub>4</sub> *2H <sub>2</sub> O	6153-56-6	0	2	1	
Oxygen	O <sub>2</sub>	7782-44-7	0	3	0	OX
P-Dichlorobenzene	C <sub>6</sub> H <sub>4</sub> Cl <sub>2</sub>	106-46-7	0	2	2	
Pentyl Alcohol (Amyl)	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>4</sub> OH	71-41-0B	0	1	3	
Petroleum Ether (500 ml limit)	UNDEFINED	8032-32-4	0	1	4	
Phosphoric Acid	H <sub>3</sub> PO <sub>4</sub>	7664-38-2	0	3	0	
Phthalic Acid	C <sub>6</sub> H <sub>4</sub> (COOH) <sub>2</sub>	88-99-3	1	0	1	
Polyphenyl Polymethyl Isouanta						
Polyvinyl Alcohol	CH <sub>2</sub> CH(OH)	9002-89-5	0	0	2	
Potassium Bromate	KBrO <sub>3</sub>	7758-01-2	0	2	0	OXPotassium
Chromate	K <sub>2</sub> CrO <sub>4</sub>	7789-00-6	1	3	0	OX
Potassium Dichromate	K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	7778-50-9	1	3	1	OX
Potassium Ferricyanide	K <sub>3</sub> Fe(CN) <sub>6</sub>	13746-66-	1	1	0	
Potassium Ferrocyanide	K <sub>4</sub> Fe(CN) <sub>6</sub> *3H <sub>2</sub> O	14459-95-	1	1	0	
Potassium Hydroxide	KOH	1310-58-3	1	3	0	
Potassium Iodate	KIO <sub>3</sub>	7758-05-6	1	1	0	OX
Potassium Nitrate	KNO <sub>3</sub>	7757-79-1	0	1	0	OX

## *Appendix B – Restricted 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>
Potassium Permanganate	KMnO <sub>4</sub>	7722-64-7	0	1	0	OX
Potassium Persulfate	K <sub>2</sub> S <sub>2</sub> O <sub>8</sub>	7727-21-1	0	1	0	OX
Potassium Sulfide	K <sub>2</sub> S	1312-73-8	0	3	1	
Propane (use restrictions)	CH <sub>3</sub> CH <sub>2</sub> CH <sub>3</sub>	74-98-6	0	1	4	
Propionic Acid	C <sub>3</sub> H <sub>6</sub> O <sub>2</sub>	79-09-4	0	2	2	
Propyl Alcohol	C <sub>3</sub> H <sub>8</sub> O	71-23-8	0	1	3	
Pyridine	C <sub>5</sub> H <sub>5</sub> N	110-86-1	0	3	3	
Pyrosulfuryl Chloride						
Silver Nitrate	AgNO <sub>3</sub>	7761-88-8	0	1	0	OX
Silver Sulfate	Ag <sub>2</sub> SO <sub>4</sub>	10294-26-	0	2	0	
Sodium Bisulfite	NaHSO <sub>3</sub>	7631-90-5	1	1	0	
Sodium Chromate	Na <sub>2</sub> CrO <sub>4</sub>	7775-11-3	1	3	0	OX
Sodium Cobaltinitrite	Na <sub>3</sub> Co(NO <sub>2</sub> ) <sub>6</sub>	13600-98-	0	2	0	OX
Sodium Dichromate, Hydrate	Na <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> ·2H <sub>2</sub> O	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	NaIO <sub>3</sub>	7681-55-2	1	1	0	OX
Sodium Iodide	NaI	7681-82-5	1	2	0	



## *Appendix B – Restricted 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>
Sodium Meta-Bisulfite	Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	7681-57-4	1	3	0	
Sodium Nitrate	NaNO <sub>3</sub>	7631-99-4	1	1	0	OX
Sodium Nitrite	NaNO <sub>2</sub>	7632-00-0	1	2	0	OX
Sodium Phosphate, Tribasic	Na <sub>3</sub> PO <sub>4</sub> *12H <sub>2</sub> O	7601-54-9	1	2	0	
Sodium Potassium Alloy						
Sodium Sulfide	Na <sub>2</sub> S*9H <sub>2</sub> O	1313-84-4	1	3	1	
Sodium Thiocyanate	NaSCN	540-72-7	1	3	0	
Sodium Thiosulfate	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> *5H <sub>2</sub> O	10102-17-	1	0	0	
Stannic Chloride	SnCl <sub>4</sub>	7646-78-8	1	3	0	
Strontium Nitrate	Sr(NO <sub>3</sub> ) <sub>2</sub>	10042-76-	0	1	0	OX
Sulfur Chloride	Cl <sub>2</sub> S <sub>2</sub>	10025-67-	1	2	1	
Sulfur Pentafluoride						
Sulfuric Acid (<10%)	H <sub>2</sub> SO <sub>4</sub>	7664-93-9	0	3	0	
Sulfuric Acid (>10%) (2.5 l limit)	H <sub>2</sub> SO <sub>4</sub>	7664-93-9	2	3	0	W
T-Butanol	(CH <sub>3</sub> ) <sub>3</sub> COH	75-65-0	0	1	3	
Terpineol	C <sub>10</sub> H <sub>17</sub> OH	98-55-5	0	0	2	
Thiophosphoryl Chloride	Cl <sub>3</sub> SP	3982-91-0	0	3	0	
Tin	Sn	7440-31-5	1	1	1	
Toluene	C <sub>7</sub> H <sub>8</sub>	108-88-3	0	2	3	

## *Appendix B – Restricted 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>
Toluene Diisocyanate	C <sub>9</sub> H <sub>6</sub> N <sub>2</sub> O <sub>2</sub>	584-84-9	1	3	1	
Toluidine Blue	CH <sub>3</sub> C <sub>6</sub> H <sub>4</sub> NH <sub>2</sub>	95-53-4	0	3	2	
Trichloroethane-1,1,1	C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub>	71-55-6	1	3	1	
Trichloroethylene	C <sub>2</sub> HCl <sub>3</sub>	79-01-6	0	2	1	
Triethanolamine	C <sub>6</sub> H <sub>15</sub> NO <sub>3</sub>	102-71-6	1	2	1	
Triethyl Stibine						
Trimethylpentane 2,2,4	C <sub>8</sub> H <sub>18</sub>	540-84-1	0	0	3	
Tri-N-Butyl Aluminum						
Trioctyl Aluminum						
Triphenyl Tetrazolium Chloride	C <sub>19</sub> H <sub>15</sub> N <sub>4</sub> Cl	298-96-4	1	2	1	
Tripropyl Stibine						
Trisodium Phosphate	Na <sub>3</sub> H <sub>3</sub> PO <sub>4</sub>	7601-54-9	1	2	0	
Trivinyl Stibine						
Tungsten	W	7440-33-7	1	1	2	
Turpentine	C <sub>10</sub> H <sub>16</sub>	8006-64-2	0	1	3	
Vanadium Trichloride	VCl <sub>3</sub>	7718-98-1				
Xylene	C <sub>8</sub> H <sub>10</sub>	1330-20-7	0	2	3	
Zinc (Powder)	Zn	7440-66-6	1	1	1	W
Zinc Acetylide						

## *Appendix B – Restricted 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>
Zinc Nitrate (500 g limit)	Zn(NO <sub>3</sub> ) <sub>2</sub> *6H <sub>2</sub> O	10196-18-	2	1	1	OX
Zinc Phosphide	Zn <sub>3</sub> P <sub>2</sub>	1314-84-7	1	3	3	

## *Appendix B2 – Restricted Chemicals (Demonstration Use Only)*

<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>
Aluminum Chloride, Anhydrous (25 g limit)	AlCl <sub>3</sub>	7446-70-0	2	3	0	W
Ammonium Dichromate (100 g limit)	(NH <sub>4</sub> ) <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	7789-09-5	3	4	1	OX
Ammonium Persulfate (100 g limit)	(NH <sub>4</sub> ) <sub>2</sub> S <sub>2</sub> O <sub>8</sub>	7727-54-0	3	2	0	OX
Antimony Metal (50 g limit)	Sb	7440-36-0				
Bromine (3 - 1 g ampules limit)	Br <sub>2</sub>	7726-95-6	0	4	0	OX
Calcium Carbide (100 g limit)	CaC <sub>2</sub>	75-20-7	2	1	3	W
Chromium Oxide (20 g limit)	Cr <sub>2</sub> O <sub>3</sub>	1308-38-9	3	4	0	OX
* Collodion (100 ml limit)	C <sub>25</sub> H <sub>33</sub> O <sub>13</sub> (NO <sub>3</sub> ) <sub>7</sub>	9004-70-0	0	1	4	
* Cyclohexanone (100 ml limit)	C <sub>6</sub> H <sub>10</sub> O	108-94-1	0	1	2	
* Cyclohexene (100 ml limit)	C <sub>6</sub> H <sub>10</sub>	110-83-8	0	1	3	
* Cyclopentanone (100 ml limit)	C <sub>5</sub> H <sub>8</sub> O	120-92-3	0	2	3	
* Diethyl Ether (500 ml limit)	(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> O	60-29-7B	1	2	4	
* Diglyme (500 ml limit)	(CH <sub>3</sub> O) <sub>2</sub> CH <sub>2</sub>	111-96-6	1	1	2	
Dinitrophenylhydrazine (100 g limit)	C <sub>6</sub> H <sub>6</sub> N <sub>4</sub> O <sub>4</sub>	119-26-6	2	1	2	
Hydrides, Borohydrides (100 g limit)						

## *Appendix B2 – Restricted Chemicals (Demonstration Use Only)*

<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>
Hydrogen (limited to 2 cu ft lecture bottle)	H <sub>2</sub>	1333-74-0	0	0	4	
Lithium (20 g limit)	Li	7439-93-2	2	1	1	W
Magnesium (turnings) (100 g limit)	Mg	7439-95-4	2	0	1	W
* Methyl Isobutyl Ketone (MIBK) (250 ml limit)	CH <sub>3</sub> COCH <sub>2</sub> CH(CH <sub>3</sub> ) <sub>2</sub>	108-10-1	1	2	3	
Pentane (100 ml limit)	C <sub>5</sub> H <sub>12</sub>	109-66-0	0	1	4	
Phosphorus, Red (Amorphous) (50 g limit)	P	7723-14-0	1	1	1	W
Potassium (1- bottle w/5 demonstration-size pieces)	K	7440-09-7	2	3	1	W
Potassium Chlorate (100 g limit)	KClO <sub>3</sub>	3811-04-9	0	2	0	OX
Silver Oxide (100 g limit)	Ag <sub>2</sub> O	20667-12-	2	1	1	OX
Sodium (100 g limit)	Na	7440-23-5	2	3	3	W
Wright's Stain (HG Containing) (100 ml limit)	Undefined	68988-92-	0	0	3	

**(\*)** Indicates those compounds that have peroxide forming potential that must be addressed in the written chemical management plan.