PROHIBITED AND RESTRICTED CHEMICAL LIST

Introduction

After incidents of laboratory chemical contamination at several schools, DCPS, The American Association for the Advancement of Science (AAAS) and DC Fire and Emergency Management Services developed an aggressive program for chemical control to eliminate student and staff exposure to potential hazardous chemicals. Based upon this program, all principals are required to conduct a complete yearly inventory of all chemicals located at each school building to identify for the removal and disposal of any prohibited/banned chemicals.

- ***Prohibited chemicals*** are those that pose an inherent, immediate, and potentially life-threatening risk, injury, or impairment due to toxicity or other chemical properties to 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.
- ***Restricted chemicals*** are chemicals that are restricted by use and/or quantities. If restricted chemicals are present at the school, each storage location must be addressed in the school's written emergency plan. Also, plan maps must clearly denote the storage locations of these chemicals.
- ***Restricted chemicals—demonstration use only*** are a subclass in the Restricted chemicals list that are limited to instructor demonstration. Students may not participate in handling or preparation of restricted chemicals as part of a demonstration. If Restricted chemicals—demonstration use only are present at the school, each storage location must be addressed in the school's written emergency plan.

Prohibited and Restricted Chemical List

Following is a table of chemicals that are Prohibited—banned, Restricted—academic curriculum use, and Restricted—demonstration use only.

Prohibited Chemicals—Banned	
2-Butanol	Chloroacetylene
Acetal	ChloroformChloropicrin
Acetaldehyde	Chloroprene
Acetyl Chloride	Chlorotrifluoroethylene
Acetyl Nitrate	Chromium (IC) Chloride
Acrolein	Chromium (Powder)
Acrylic Acid	Chromyl Chloride
Acrylonitrile	Cobalt (Powder)
Alcohols (Allylic, Benzylic)	Colchicine
Alidyy-Substituted Cycloaliphatics	Copper Acetylide
Aluminum Hydrophosphide	Cumene
Aluminum Phosphide	Cycloheptanone
Amatol	Cyclohexanoi
Ammonal	Diacetylene
Ammonium Bromate	Diazidoethane
Ammonium Chlorate	Diazodinitrophenol
Ammonium Hexanitrocobaltate	Diazomethane
Ammonium Nitrite	Dicyciopentadiene
Ammonium Perchlorate	Dicsopropyl Ether
Ammonium Periodate	Dinitrophenol
Ammonium Permanganate	Dioxane
Ammonium Tetraperoxychromate	Dipentaerythritol Hexanitrate
Antimony Campounds Arsenic and Arsenic Compound	Disulfur Dinitride
Azides	Divinyl Acetylene
Azidocarbonyl Guanidline	Divinyl Ether
Barium	Ethyl Ether
Barium Chlorate	Ethyl Nitrite
Barium Oxide (Anhydrous)	Ethylene Glycol Dimethyl
Barium Peroxide	Ether (Glyme)
Benzene	Ethylene Glycol Dinitrate
Benzene Diazonium Chloride	Ethylene Oxide
Benzotriazole	Formaldehyde
Benzolyl Peroxide	Furan
Benzyl Alcohol	Glycol Dinitrate
Bismuth Nitrate	Glycol Monolactate Trinitrate
Borane, Boranes, Diboranes	Grignard Reagents (Ether Solvents)
Boron Tribromide	Guanyl Nitrosaminoguanyl Hydrazine
Boron Trifluoride	Hexyl Alcohol
Bromine Pentafluoride	HMX
Bromine Trifluoride	Hydrazoic Acld
Butadiene	Hydrofloric Acid
Butenetroil Trinitrate	Hydrogen Peroxide (~30%)
Cadmium and Cadmium Compounds	Hydrogen Peroxide (60%)
Calcium Nitrate. Anhydrous	Hydrogen Sulfide
Calcium Permanganate	lsopropyl Ether
Carbon Tetrachloride	Lead Arsenate
Chloral Hydrate	Lead Dinitride (Azide)
Chlorine	Lead Dinitrorescorcinate (Styphnate)
Chlorine Dioxide	Lead Dioxide. Brown
Chlorine Trifluoride	Lead Mononitrorescorcinate
Chlorine Trioxide	Lithium Nitrate

Cyclopentene	Lithium Nitride
Prohibited Chemicals—Banned (continued)	
Lithium Peroxide	Sodium Chlorite
Magnesium (except Mg ribbon & turnings) Magnesium Peroxide	Sodium Cyanide
	Sodium Dithionite
Mannitol Hexanitrate	Sodium Hydrosulfite
Mercury and Mercury Compounds	Sodium Methylate
Methyl Acetylene	Sodium Perborate
Methyl Cyclopentane	Sodium Perchlorate
Methyl Isocyanate	Sodium Permanganate
Methyl Methacrylate, Monomer	Sodium Peroxide
Nessler's Reagent (Mercury Compound)	Strontium Perchlorate
Nicotine	Styrene Monomer
Nitroglycerin	Sulfur Trioxide
Nitrosoguanidine	Sulfuryl Chloride (Sulfonyl)
Osmic Acid	Sulfuryl Chloride Fluoride
Osmium Tetroxide	T-Butyl Hypochlorite
O-Toluidine	Tetrafluoroethylene
Pentaerythritol Tetranitrate (PETN)	Tetrahydrofuran
Perchloric Acid	Tetrahydronaphthalene
Phenol	Tetranitromethane
Phenyl Thiourea	Tetraselenium
Phosphorus Halides and Oxides	Tetranitride
Phosphorus, Phosphides	Tatrazene
Phthalk Anhydride, Picrates, Picramide, and Picryl Compounds.	Tetryl
	Thallium Nitride
Picric Acid	Thermit
P-Nitrophenol	Themtite Igniting Mixture Thiocarbonyl
Polyvinyl Nitrate	Tetrachloride
Potassium Amide	Thionyl Chloride
Potassium Cyanide KCN	Titanium (Powder)
Potassium Dinitrobenzfuroxan	Titanium Tetrachloride
Potassium Nitrite	Triethyl Aluminum
Potassium Perchlorate	Triethyl Arsine
Potassium Periodate	Triisobutyl Aluminum
Potassium Peroxide	Trimethyl Aluminum
Potassium Superoxide	Ttinitroanisole
RDX	Trinitrobenzene
Sec-Butyl Alcohol (2-Butanol)	Trinitrobenzoic Acid
Silanes and Chlorosilanes	Trinitronaphthalene
Silicon Tetrachloride	TrInitroresorcinol
Silver Acetylide	Trinitrotoluene
Silver Cyanide	Trisilyl Arsine
Silver Dinitrorescorcinate (Styphnate)	Uranium Componds
Silver Fulminate (Cyanate)	Uranyl Acetate
Silver Nitride	Uranyl Nitrate
Silver Oxalate	Urea Nitrate
Silver Tetrazene	Vinyl Acetate
Sodamide	Vinyl Acetylene
Sodium Amide	Vinyl Chloride
Sodium Arsenate	Vinyl Ethers
Sodium Arsenite	Vinylidene Chloride
Sodium Chlorate	Zinc Peroxide

Restricted Chemicals—Academic Curriculum Use	
2-Butanone	Benzoic Acid
Acetamide	Benzyl Chloride
Acetanilide	Benzyl Sodium
Acetic Acid	Benzylamine
Acetic Anhydride	Beryllium Tetrahydroborate
Acetone	Biphenyl (Diphenyl)
Acetyl Halides	Bismuth Pentafluoride
Acetylcholine Bromide	Boric Acid
Acridine Orange UNDEFINED	Boron Bromodiiodide
Adipoyl Chloride	Boron Oibromoiodide
Alizarin Red UNDEFINED	Boron Phosphide
Alkyl Aluminum Chloride	Boron Trichloride
Aluminum AI	Bromine Monofluoride
Aluminum Acetate	Bromine Water
Aluminum Bromide	Bromobenzene
Aluminum Chloride, Hydrate	Bromodiethylaluminum
Aluminum Fluoride	Bromoform
Aluminum Hydroxide	Butanol (N-Butyl Alcohol)
Aluminum Nitrate	Butyric Acid
Aluminum Tetrahydroborate	Calcium (100 9 limit)
Ammonia, Anhydrous	Calcium Bromide
Ammonia, Liquid	Calcium Hypochlorite
Ammonium Acetate	Calcium Nitrate Tetrahydrate
Ammonium Bicarbonate	Calcium Phosphide
Ammonium Bichromate	Camphor
Ammonium Bromide	Carbon Disulfide
Ammonium Carbonate	Ceric (IV) Sulfate
Ammonium Chloride	Cesium Amide
Ammonium Chromate	Cesium Phosphide
Ammonium Fluoride	Chlorine Monofluoride
Ammonium Hydroxide	Chlorine Pentafluoride
Ammonium Iodide	Chloroacetic Acid
Ammonium Molybdate	Chloroacetyt Chloride
Ammonium Nitrate	Chlorobenzene
Ammonium Oxalate	Chlorodiisobutyl Aluminum
Ammonium Phosphate, Dibasic	Chlorophenyllsocyanate
Ammonium Phosphate, Monobasic	Chromic Acid
Ammonium Sulfate	Chromium (IC) Nitrate
Ammonium Sulfide	Chromium Sulfate
Ammonium Tartrate	Chromium Trioxide
Ammonium Thiocyanate	Cobalt (ous) Nitrate
Amyl Acetate	Cupric 8romide, Anhydrous
Amyl Alcohol(N)	Cyclohexane
Aniline	Dichlorobenzene
Aniline Hydrochloride	Dichloroethane
Anisoyl Chloride	Dichloromethane
Barium Acetate	Diethyf Aluminum Chloride
Barium Carbide	Diethyf Zinc
Barium Chloride Hydrate	Diisopropyl Beryllium
Barium Nitrate	Dimethyl Magnesium
Benzaldehyde	Diphenyl Diisocyanate
Benzene Phosphorus Dichloride	Diphenylamine

Restricted Chemicals—Academic Curriculum Use (continued)	
Ethanol C2H50H	Methyl Magnesium Chloride
Ethyl Acetate	Methyl Magnesium Iodide
Ethyf Alcohol	Methylene Chloride
Ethyf Methacryfate	Naphthalene
Ethylene Dichloride	Napthol-1
Ethyfenediamine	N-Butyt Alcohol
Faa Solution UNDEFINED	N-Butyllithium
Fehlings Solution A UNDEFINED	Nickel Antimonide
Fehlings Solution B UNDEFINED	Nickel(lI) Nitrate
Ferric Chloride. Anhydrous	Nickel(lI) Sulfate
Ferric Nitrate	Nitric Acid
Fluorine Monoxide	Nitrobenzene
Fluorosulfonic Acid	Nitrogen
Formalin	Octyl Alcohol
Formic Acid	a-Dichlorobenzene
Gasoline UNDEFINED	Oxalic Acid. Hydrate
Glutaraldehyde	Oxygen
Gold Acetylide	P-Dichlorobenzene
Hematoxylin	Pentyl Alcohol (Amyl)
Heptane,	Petroleum Ether
Hexamethylene Diisocyanate	Phosphoric Acid
Hexamethylenediamine	Phthalic Acid
Hexane,	Polyphenyl Polymethyllsouanta
Hydriodic Acid	Polyvinyl Alcohol
Hydrobromic Acid	Potassium Bromate
Hydrochloric Acid	Potassium Chromate
Hydrogen Peroxide (30% or less)	Potassium Dichromate
Hydroquinone	Potassium Ferricyanide
Hydroxylamine	Potassium Ferrocyanide
Hydrochloride	Potassium Hydroxide
Iodine	Potassium Iodate KI03
Iodine Monochloride	Potassium Nitrate KN03
Iron	Potassium Permanganate
Isoamyl Alcohol	Potassium Persulfate
Isobutyl Alcohol	Potassium Sulfide
Isopentyl Alcohol	Propane
Isopropyl Alcohol	Propionic Acid
Kerosene UNDEFINED	Propyl Alcohol
lead Nitrate	Pyridine
Lead Oxide, Red	Pyrosulfuryl Chloride
Lead Peroxide (01)	Silver Nitrate
Lithium Amide	Silver Sulfate
Lithium Bromide LiBr	Sodium Bisulfite
Lithium Ferrosilicon	Sodium Chromate
Lithium Silicon	Sodium Cobaltinitrite
Lithium Sulfate	Sodium Dichromate, Hydrate 0
Lye	Sodium Fluoride
Magnesium (ribbon)	Sodium Hydroxide
Methyl Alcohol	Sodium Hypochlorite
Methyl Aluminum Sesquibromide	Sodium Iodate
Methyl Aluminum Sesquichloride	Sodium Iodide
Methyl Ethyt Ketone	Sodium Metabisulfite
Methyl Magnesium Bromide	Sodium Nitrate
	Sodium Nitrite

Restricted Chemicals—Academic Curriculum Use (continued)	
Sodium Phosphate, Tribasic	Trichloroethylene
Sodium Potassium Alloy	Triethanolamine
Sodium Sulfide	Triethyl Stibine
Sodium Thiocyanate Sodium Thiosulfate	Trimethylpentane
Stannic Chloride	Tri-N-Butyl Aluminum
Strontium Nitrate	Trioctyl Aluminum
Sulfur Chloride	Triphenyl Tetrazolium
Sulfur Pentafluoride	Tripropyl Stibine
Sulfuric Acid «10%)	Trisodium Phosphate
Sulfuric Acid (>10%)	Trivinyl Stibine
T -Butanol	Tungsten
Terpineol	Turpentine
Thiophosphoryl Chloride	Vanadium Trichloride
Tin	Xylene
Toluene	Zinc (Powder)
Toluene Diisocyanate	Zinc Acetylide
Toluidine Blue	Zinc Nitrate
Trichloroethane, 1,1,1-	Zinc Phosphide

Restricted Chemicals—Demonstration Use Only	
Aluminum Chloride, Anhydrous Ammonium Dichromate) Ammonium Persulfate Antimony Metal) Bromine Br2 Calcium Carbide Chromium Oxide Collodion (100mllimit) Cyclohexanone Cyclohexene (100 mllimit) Cyclopentanone (100 mllimit) Diethyl Ether	Diglyme Dinitrophenylhydrazine Hydrides, BorohydridesI Hydrogen Lithium Magnesium (turnings) Methyl Isobutyl Ketone (MIBK) Pentane Phosphorus, Red (Amorphous) Potassium (Potassium Chlorate Silver Oxide Sodium Na Wright's Stain (HG Containing) Undefined