

Chemicals that are Banned in APS Schools

Chemicals used in the laboratory may be hazardous because of the following: Safety risks (i.e., highly flammable or explosive material); Acute and chronic health hazards; Environmental harm Impairment of indoor air quality. Assessment of the chemicals in this list indicates that their hazardous nature is greater than their potential usefulness. Evaluation included physical hazards (i.e., flammability, explosive propensity, reactivity, corrosivity) and health hazards (i.e., toxicity, carcinogenicity). This following list of chemicals was generated from the Manual of Safety and Health Hazards in the School Science Laboratory published by U.S. Department of Health and Human Services, National Institute for Occupational Safety and Health [1984]. Carcinogenic substances were identified from the Report on Carcinogens (10th Edition) generated by the National Toxicology Program [2002].

This list will change with updates from NIOSH Specific hazards are available in the NIOSH Lab SafetyGuide.

Acrylonitrile	Formaldehyde	Silver cyanide
Ammonium chromate	Gunpowder	Silver nitrate (except for
Ammonium dichromate	Hexachlorophene	teacher
Aniline	Hydrobromic acid	demonstrations)
Aniline hydrochloride	Hydrofluoric acid	Silver oxide
Anthracene	Hydrogen	Sodium arsenate
Antimony trichloride	Hydriodic acid	Sodium arsenite
Arsenic and its compounds	Lead arsenate	Sodium azide
Asbestos	Lead carbonate	Sodium chromate
Ascarite II	Lead (VI) chromate	Sodium cyanide
Benzene	Lithium, metal	Sodium dichromate
Benzoyl peroxide	Lithium nitrate	Sodium nitrite
Bromine	Magnesium, metal	Sodium sulfide
Calcium cyanide	(powder)	Sodium thiocyanide
Carbon disulfide	Mercury (pure liquid)	Stannic chloride
Carbon tetrachloride	Mercuric chloride	Stearic acid
Chloral hydrate	Methyl iodide	Strontium
Chlorine	(iodomethane)	Strontium nitrate
Chloroform	Methyl methacrylate	Sudan IV
Chloropromazine	Methyl orange	Sulfuric acid, fuming
Chromium hexavalent	Methyl red	Tannic acid
compounds	Nickel, metal	Tetrabromoethane
Chromium trioxide	Nickel oxide	Thioacetamide
Colchicine	Nicotine	Thiourea
Cyanide salts	Osmium tetroxide	Titanium trichloride
p-Dichlorobenzene	Paris green	Titanium tetrachloride
Dimethylaniline	Phenol	o-Toluidine
p-Dioxane	Phosphorus pentoxide	Toluene
Ethylene dichloride	Phosphorous, red, white	Uranyl acetate
(1,2-Dichloroethane)	Phthalic anhydride	Urethane
Ethidium bromide	Potassium, metal	Vinyl chloride
Ethyl ethers	Potassium oxalate	Xylene
Ethylene oxide	Potassium sulfide	Wood's metal
	Pyridine	
	Selenium	