

# APPENDIX G

## RESTRICTED CHEMICALS

CHEMICAL NAME	REASON FOR RESTRICTION
Acetaldehyde	Suspected carcinogen, highly flammable
Acetamide	Suspected animal carcinogen
Acrylamide	Suspected carcinogen, absorbs through skin
AITCH-TU-ESS Cartridges (HIGH SCHOOL ONLY)	Generates explosive and toxic gas
Aldrin	Suspected carcinogen, absorbs through skin
Allyl Chloride	Suspected carcinogen
Aluminum Chloride, Anhydrous (Hydrate Salts Are Allowed)	Water reactive; corrosive
Ammonium Bichromate	Oxidizer, corrosive, known human carcinogen
<b>Ammonium Nitrate</b>	<b>AP/IB CHEMISTRY ONLY: Explosive if heated under confinement</b>
Ammonium Oxalate	May be fatal if inhaled or ingested
Ammonium Vanadate	May be fatal if inhaled or ingested
Anisidine (o-, p-isomers)	Suspected carcinogen
Barium Chloride	Severely toxic; 0.8 gram fatal dose
Barium Hydroxide	Highly toxic, neurotoxin
Barium Nitrate	Poison, strong oxidant, highly toxic to eyes
Benzene (Phenylbutazone)	Irritant
Benzo(a)pyrene	Suspected carcinogen
Bromine	Poison, powerful oxidizer
Bromoform	Toxic by inhalation, unsuspected carcinogen
iso-Butanol	Suspected carcinogen, highly flammable
sec-Butanol	May form explosive hydroperoxides
tert-Butanol	Suspected carcinogen and mutagen, highly flammable
1,3-Butadiene	Suspected carcinogen
Caffeine	Very toxic, 1 grain may be life threatening
<b>Calcium Carbide</b>	<b>Flammable, reacts with water</b>
Calcium Chromate	Suspected carcinogen
Calcium Fluoride	Mutagenic effects in animals, poison, toxic to humans
<b>Calcium Oxide</b>	<b>Corrosive, irritating</b>
Carbol Fuchsin	Suspect animal carcinogen and mutagen
Carmine	Irritant; burning may produce carbon monoxide
Catechol	Corrosive
Chlordane	Suspected carcinogen, absorbs through skin
Chlorinated Camphene	Suspected carcinogen, absorbs through skin
B-Chloroprene	Suspected carcinogen, absorbs through skin
Chromic Sulfuric Acid	Positive animal and human carcinogen
Chromium	Known human carcinogen as dust or fume
Chromium Acetate	Irritant

CHEMICAL NAME	REASON FOR PROHIBITING
Chromium (III) Chloride	Suspected carcinogen
Chromium( III) Nitrate	Known human carcinogen
Chromium (III) Oxide	Known Human carcinogen
Chromium (VI) Oxide	Suspected carcinogen
Chromium(III) Potassium Sulfate	Suspected carcinogen
Chrysene	Suspected carcinogen
Cobalt	Suspected carcinogen
Cobalt Nitrate	Oxidizer; irritant
<b>Cresols</b>	<b>AB/IB BIOLOGY ONLY: Dermal toxicity</b>
Crotonaldehyde	Suspected carcinogen
<b>Crystal Violet Solution</b>	<b>AP/IB CHEMISTRY ONLY: Contains known animal carcinogens and poisons</b>
<b>Cyclohexane</b>	<b>AP/IB CHEMISTRY ONLY: Flammable</b>
<b>Cyclohexanol</b>	<b>AP/IB CHEMISTRY ONLY: May form explosive peroxides as it ages</b>
Cyclohexene	May form explosive peroxides, toxic by inhalation
<b>p-Dichlorobenzene</b>	<b>AP/IB CHEMISTRY ONLY: Combustible, known human carcinogen</b>
1,2-Dichloroethane	Suspected human carcinogen, animal mutagen
Dichloroindophenol Sodium	Irritant
Dieldrin	Suspected carcinogen, absorbs through skin
Diglycidyl Ether (DGE)	Suspected carcinogen
Dimethyl Sulfate	Suspected carcinogen, absorbs through skin
Epichlorohydrin	Suspected carcinogen, absorbs through skin
Ethyl Bromide	Suspected carcinogen, absorbs through skin, inhalation hazard
Ethylene Glycol	Animal mutagen, narcotic and nephrotoxin
Ethylenediamine Tetra-acetic Acid	Animal mutagen
FAA Solution	Contains formaldehyde and 90% alcohol, poison
Ferrous Sulfate	Irritant
Fuchsin	Irritant
Hematoxylin	Suspected carcinogen
Heptachlor	Suspected carcinogen, absorbs through skin
Hexachlorobutadiene	Suspected carcinogen, absorbs through skin
Hexachloroethane	Suspected carcinogen
Hexamethyl phosphoramide	Suspected carcinogen, absorbs through skin
<b>Hydrogen Peroxide (30%)</b>	<b>HIGH SCHOOL ONLY: Fire and explosion risk, severely corrosive</b>
<b>Iodine Crystals</b>	<b>AP/IB CHEMISTRY ONLY: May react violently, vapor highly toxic</b>
<b>Indigo Carmine</b>	<b>Animal carcinogen</b>
Isoamyl Alcohol	Irritant; combustible liquid and vapor
Isobutyl Alcohol	Flammable
Lead(II) Acetate	Suspected animal carcinogen
Lead (VI) Chromate	May be fatal if inhaled or ingested, known human carcinogen
Lead and Lead Compounds	Poison, cumulative neurotoxin
Lithium Nitrate	Oxidizer
Magnesium Chlorate	Irritant
Magnesium Ribbon	Irritant

CHEMICAL NAME	REASON FOR PROHIBITING
Manganous Nitrate	Explosion hazard in dry form
<b>Methanol</b>	<b>AP/IB CHEMISTRY ONLY: absorbs through skin, flammable</b>
Methyl Bromide	Suspected carcinogen, absorbs through skin
Methyl Chloride	Suspected carcinogen, absorbs through skin
Methyl Oleate	Toxic
Methylene Chloride	Possible carcinogen, may be absorbed through skin
4,4'-Methylene bis(2-chloroaniline)	Suspected carcinogen, absorbs through skin
4,4'-Methylene Dianiline	Suspected carcinogen, absorbs through skin
<b>Naphthalene</b>	<b>Corrosive, irritating</b>
Nessler's Reagent Solution	Poison, neurotoxin, and nephrotoxin
Nickel Carbonate	Reasonably anticipated human carcinogen
Nickel(II) Chloride	Suspected animal carcinogen
Nickel Compounds	Fumes may cause increase risk of lung cancer, many nickel compound are animal mutagens and carcinogens (also Nickel(ous) compounds)
Nickel(II) Nitrate	Suspected animal carcinogen
Nickelous Acetate	Reasonably anticipated human carcinogen
Ninhydrin	Irritant poison, biologically active
Oxalic Acid	Neurotoxin and nephrotoxin, poison
Paraformaldehyde	Mutagen, possible animal carcinogen
Pentane	Irritant; flammable
Petroleum Ether	Flammable
o-Phenylenediamine	Suspected carcinogen
1-Phenyl-2-Thiourea	May be fatal if inhaled or ingested
Polyvinyl Alcohol	Suspected animal carcinogen
Potassium Bromate	Animal mutagen
Potassium Chlorate	Extremely explosive if slightly contaminated
Potassium Chromate	Possible human carcinogen
Potassium Dichromate	Possible human carcinogen
Potassium Ferricyanide	Decomposed to ferrocyanide upon ingestion
Potassium Nitrite	Animal mutagen and teratogen
Potassium Permanganate	Animal mutagen
Potassium Periodate	Oxidizer
Propane Sultone	Suspected carcinogen
Propylene Dichloride	Suspected carcinogen
Propylene Diamine	Suspected carcinogen, absorbs through skin
Propylene Oxide	Suspected carcinogen; extremely flammable; harmful by inhalation
Resorcinol	Neurotoxin
Rhodamine B	Moderately toxic, positive animal carcinogen, suspected human carcinogen, avoid all skin contact
Salol (Phenyl Salicylate)	Irritant
Saponin	Destroys red blood cells, toxic by ingestion
Silver Acetate	Severely toxic by inhalation and ingestion
Silver Nitrate (HIGH SCHOOL ONLY)	Oxidizer; corrosive; may be fatal if ingested
Sodium Bisulfite	Animal Mutagen

CHEMICAL NAME	REASON FOR PROHIBITING
Sodium Borate	Animal mutagen, poisoning affects kidneys
Sodium Bromate	Oxidizer
Sodium Chlorate	Clothing contaminated with chlorates are extremely flammable
Sodium Fluoride	Animal mutagen
<b>Sodium Metal (Lump/Piece)</b>	<b>Water Reactive</b>
Sodium Nitrate	Oxidizer; irritant
Sodium Oxalate	Poison; fatal dose < 5 grams, nephrotoxin and neurotoxin
Sodium Silicofluoride	Toxic
Sodium Salicylate	Animal mutagen and reproductive effects
Strontium Chromate	suspected carcinogen
Sudan III or Sudan IV (SOLUTIONS ONLY)	Decomposes to oxides of nitrogen
Sulfamethazine	Irritant
<b>Thermite</b>	<b>AP/IB CHEMISTRY ONLY: Explosive</b>
Thymol	Tumororigenic, reproductive, and mutagenic effects in animals
Toluene	Nephrotoxin and hepatotoxin; mutagenic effects in animals
Toluene -2,4-diisocyanate	Suspected carcinogen, sensitizer (allergen)
Triethanolamine	Suspected carcinogen
Urethane (Ethyl Carbamate)	Alleged carcinogen
Vinyl Cyclohexene dioxide	Suspected carcinogen
Wright's Stain Solution	Neurotoxin
Zinc Acetate	Reproductive and mutagenic animal effects
Zinc Chloride	Reproductive and tumorigenic effects in animals
Zinc Oxide	Animal mutagen
Zinc Sulfate	Animal mutagen

The most recent chemicals added to the restricted list appear in red.