

APPENDIX F

PROHIBITED CHEMICALS

CHEMICAL NAME	REASON FOR PROHIBITING
Acetaldehyde Suspected carcinogen, highly flammable	Carcinogen, highly flammable
Acrylamide (and pre-poured gels)	Possible neurotoxin and carcinogen
Acrylonitrile	OSHA listed carcinogen; flammable
Adrenaline	Highly toxic
4-Aminodiphenyl	OSHA listed carcinogen
2-Acetylaminofluorene	OSHA listed carcinogen
Aluminum Chloride, Anhydrous (Hydrate Salts Are Allowed)	Water reactive; corrosive
Ammonium Chromate	OSHA known human carcinogen
Ammonium Dichromate	May decompose to chromium (III), known human carcinogen
Ammonium Perchlorate	Explosive
Ammonium Sulfide	Contact with acids or acid fumes may liberate flammable and poisonous hydrogen sulfide gas, strong skin and mucous irritant
Antimony and all compounds	Animal carcinogen, corrosive, irritating
Aniline; Aniline Hydrochloride	Combustible; may be fatal if inhaled, ingested, or absorbed through the skin, confirmed animal carcinogen
Anthracene	Irritant; may cause an allergic skin reaction
Arsenic and any of its compounds	Poison; known human carcinogens, highly toxic
Asbestos in any form	OSHA known human carcinogen
Ascarite II	Corrosive; may be fatal if ingested
Azides, heavy metal salts	Primary high explosive detonable when heated or shaken
Barium Oxalate	Highly toxic
Barium Peroxide	Fire and explosion risk
Benzene	OSHA known human carcinogen; flammable
Benzidine	OSHA listed carcinogen
Benzoyl Peroxide	Flammable; can spontaneously explode

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Benzaldehyde	DEA Schedule I precursor for the production of amphetamine and P2P which is used to produce methamphetamine
Benzyl Chloride	DEA Schedule I precursor for the production of methamphetamine
Beryllium and all compounds	Poison, Dust is highly toxic
Bouin's Solution	25% Formaldehyde, suspected carcinogen
Butyric Acid	Corrosive, intense stench
Cadmium	Positive animal carcinogen, teratogen and mutagen; known human carcinogen, toxic if inhaled or swallowed
Cadmium Chloride	Known human carcinogen
Cadmium Nitrate	Known human carcinogen, highly toxic, flammable
Cadmium Oxide	Poison
Cadmium Powder	Poison
Cadmium Salts	Poison
Cadmium Sulfate	Highly toxic, positive animal carcinogen, bio-accumulative in all organisms major ingredient is picric acid
Calcium Cyanide	May be fatal if inhaled or ingested
Carbon Disulfide	Flammable; acute central nervous system toxicity
Carbon Tetrachloride	Nephrotoxin and hepatotoxin, suspect human carcinogen (OSHA says known carcinogen), absorbs through skin
Chloretone	Regulated as a drug in may state; highly addictive, toxic
Chloral Hydrate	Controlled barbiturate
Chlorine	Oxidizer; corrosive; may be fatal if inhaled
Chlorobenzene	Explosive limits 1.8% to 9.6%, toxic inhalation
Chloroform	Suspected human carcinogen, may cause cardia- arrhythmias
bis-Chloromethyl Ether	OSHA and ACGIH listed carcinogen
Chlorpromazine	Controlled substance
Chromium Trioxide	Highly toxic, corrosive and carcinogenic
Cobalt Powder	Carcinogen
Colchicine	Highly toxic, 2/100 gram potentially fatal
Cyanide (Group I)	Reactive
Collodion	Contains 70% ethyl ether
Diazomethane	Suspected carcinogen
Dichloroacetylene	Suspected carcinogen

CHEMICAL NAME	REASON FOR PROHIBITING
1,2-Dibromo-3-Chloropropane	OSHA listed larcinogen
3,3-Dichlorobenzidine	OSHA listed carcinogen
1,2 Dichloroethane (aka Ethylene Dichloride)	Peroxide former, fatalities have occurred
Dichloropropene	Suspected carcinogen, absorbs through skin
Diisopropyl Ether	Explosive
4,4-Dimethylaminoazobenzene	OSHA listed carcinogen
Dimethylamine; Dimethylaniline	Acute toxins
1,1-Dimethylhydrazine (aka UDMH)	Suspected carcinogen
2,4 Dinitrophenol	Irritant, cellular metabolic poison
Dinitrotoluene	Suspected carcinogen, absorbs through skin, highly explosive
1,4 Dioxane	Known carcinogen, may explode, high fire risk, absorbs through skin
Divinyl Acetylene	Peroxide former fatalities have occurred
Ephedrine	DEA Schedule I precursor used in the production of methamphetamine
Epinephrine	Can be fatal
Estrone	Known carcinogen
Ethidium Bromide	Mutagen
Ether, Anhydrous	Flammable, peroxide former
Ethyl Acetate	Fire and explosion risk, toxic by inhalation and skin absorption
Ethylamide	DEA Schedule I precursor used in the production of methamphetamine
Ethylene Dibromide	Known carcinogen, absorbs through skin
Ethylenediamine	OSHA listed carcinogen, explosive
Ethylene Dichloride (dichloroethane)	Animal carcinogen
Ethylene Oxide	OSHA listed carcinogen
Ethyl Bromide	Suspected carcinogen, absorbs through skin, inhalation hazard
Ethyl Ether (Diethyl Ether)	Highly flammable, explosive with age
Explosives and Ammunition; Gunpowder	Explosive
Fisher-Fresh Concentrate	Contains formaldehyde, a suspected human carcinogen and known animal carcinogen
Formaldehyde	Known animal carcinogen and OSHA listed human carcinogen; poison; may cause allergen reaction
Formalin	Possible human carcinogen
Formic Acid	Explosion hazard upon aging
Gasoline	Reactive
Glazes with Lead and Cadmium	Toxic, suspected carcinogens

CHEMICAL NAME	REASON FOR PROHIBITING
Gunpowder	Explosive
Hexachlorophene	May be fatal if inhaled, ingested, or absorbed through the skin; possible teratogen
Hydrazine (anhydrous)	Flammable, acute toxin, suspected human carcinogen
Hydrobromic Acid	Corrosive; may be fatal if inhaled or ingested
Hydrocyanic Acid	Extremely Toxic
Hydrofluoric Acid	Corrosive; may be fatal if inhaled or ingested; can cause severe burns
Hydrogen	Flammable
Hydrogen Sulfide	Corrosive, as deadly as cyanide gas
Hydroquinone	Animal carcinogen, corrosive, irritating
Hydriodic Acid	Corrosive; may be fatal if inhaled or ingested
Isopropyl Ether	Peroxide former, fatalities have occurred
Isosafrole	DEA Schedule I precursor
Lead (II) Arsenate	High toxicity; known human carcinogen and teratogen
Lead Carbonate	May be fatal if inhaled or ingested; neurotoxin
Lindane	Suspected carcinogen, absorbs through skin
Lithium Metal	Combustible; water reactive
Magnesium Metal or Powder (RIBBON IS ALLOWED)	May ignite spontaneously on contact with water or damp materials
Mercury and all its compounds	Corrosive; may be fatal if inhaled or ingested
Methylamine and other primary amines	DEA Schedule I precursor used in production of methamphetamine
Methylchloromethyl Ether	OSHA listed carcinogen
Methyl Ethyl Ketone	Irritant; flammable, inhalation hazard includes birth defects
Methylhydrazine (Mono or Di)	Explosive, used in rocket fuel
Methyl Iodide	May be fatal if inhaled or ingested, or absorbed through the skin; carcinogen
Methyl Methacrylate	Flammable; explosive
Methyl Orange Solid (INDICATOR SOLUTION ARE ALLOWED)	Possible mutagen
Methyl Red Solid (INDICATOR SOLUTION ARE ALLOWED)	Possible mutagen
2-Methoxy Ethanol	Possible teratogen, absorbed through skin
Million's Reagent	Contains 11% mercury
Nickel Carbonyl	Known human carcinogen

CHEMICAL NAME	REASON FOR PROHIBITING
Nickel Metal	Known human carcinogen; mutagen
Nickel Oxide	Known human carcinogen; mutagen
Nickel Powder	Acute toxin
Nicotine	May be fatal if inhaled or ingested, or absorbed through the skin
Nitro or Nitros (Any chemical with nitro or nitros in name)	Flammable, explosive
Fuming Nitric Acid (CONCENTRATED, NON-FUMING ACID IS ALLOWED)	Known human carcinogen; mutagen
Nitro Compounds (di or tri)	Explosion Hazard
4-Nitrobiphenyl	OSHA listed carcinogen
Nitroglycerine	Explosion hazard
1-Naphthylomine & Salts	Known human carcinogen
2-Naphthylomine & Salts	Known human carcinogen
alpha-Naphthylamine	OSHA listed carcinogen
beta-Naphthylamine	OSHA listed carcinogen
N-Nitrosodimethylamine	OSHA listed carcinogen
Organo-Peroxides including Benzoyl Peroxide	Explosion hazard
Organo-Phosphorus	Highly explosive and toxic gases
Oleum (32 Molar Sulfuric Acid, fuming Sulfuric Acid)	Extremely corrosive, causes severe burns
Osmium Tetroxide	May be fatal if inhaled or ingested
Paris Green	May be fatal if inhaled or ingested, or absorbed through the skin; known human carcinogen
Perchloric Acid	Dangerously explosive, corrosive
Phenol	Combustible; corrosive; may be fatal if inhaled or ingested, or absorbed through the skin
Phenylhydrazine	Suspected carcinogen, absorbs through skin
Phenylhydrazine Hydrochloride	Suspected carcinogen
Phosphorous (Red, White, or <u>Yellow</u>)	Extremely reactive, very toxic when burned, can cause very serious skin burns
Phosphorous Pentachloride	Reactive in water, source of hydrogen chloride and chlorine gas
Phosphorous Pentoxide	Water reactive; corrosive
Phthalic, Anhydride	Combustible; finely dispersed particles form explosive mixture in air; corrosive
Picric Acid	Extremely reactive; may be explosive
Piperdine	DEA Schedule I precursor
Piperonal	DEA Schedule I precursor
Potassium Amide	Peroxide former, fatalities have occurred
Potassium Cyanide	Extremely poisonous
Potassium Metal	Flammable, water reactive, peroxide former

CHEMICAL NAME	REASON FOR PROHIBITING
Potassium Oxalate	Corrosive; may be fatal if ingested, fatalities have occurred
Potassium Sulfide	Spontaneously combustible; explosive in dust or powder form
Progesterone	Known human carcinogen
Propionic Anhydride	DEA Schedule I precursor
beta-Propiolactone	OSHA listed carcinogen
Pyridine	Flammable; possible mutagen
Pyrogallol	Poison, fatal dose (adult) is 1 gram, may be absorbed through the skin
Radioactive Materials	Carcinogenic, teratogenic
Safrole	DEA Schedule I precursor
Selenium	Sever irritant
Silver Cyanide	May be fatal if inhaled or ingested, or absorbed through the skin
Silver Oxide	Oxidizer
Sodium Amide	Peroxide former, fatalities have occurred
Sodium Arsenate	May be fatal if inhaled or ingested; known human carcinogen
Sodium Arsenite	Suspected carcinogen, acute toxin, deadly
Sodium Azide	Explosive when heated; May be fatal if ingested, or absorbed through the skin
Sodium Chromate	Oxidizer; corrosive; known human carcinogen
Sodium Cyanide	Poison
Sodium Dichromate	Oxidizer; corrosive; may be fatal if ingested; known human carcinogen
Sodium Nitrite	Oxidizer
Sodium Perchlorate	Explosive
Sodium Peroxide	Serious explosion, fire risk
Sodium Sulfide	Corrosive; may be fatal if inhaled or ingested
Sodium Thiocyanide	Contact with acid liberates very toxic gas
Stannic Chloride, Anhydrous	Corrosive; hydrochloric acid liberated upon contact with moisture and heat
Stearic Acid	May form combustible dust in the air
Strychnine	Highly toxic
Strontium	Water reactive
Strontium Nitrate	Oxidizer
Sudan II & IV Solids (SOLUTIONS ARE ALLOWED)	Irritant; toxic properties have not been thoroughly evaluated
(Fuming) Sulfuric Acid (CONCENTRATED, NON-FUMING ACID IS ALLOWED)	Corrosive; may be fatal if ingested
Tannic Acid	Irritant
alpha-Terpineol	Tumorigenic effects in animals

CHEMICAL NAME	REASON FOR PROHIBITING
Tetrabromoethane	May be fatal if inhaled or ingested, or absorbed through the skin
Testosterone; Testosterone Propionate	Positive animal carcinogen, suspect human carcinogen, may affect reproductive system
Tetrahydrofuran	Explosive if improperly stored
Thioacetimide	Reasonably anticipated human carcinogen
Thiourea	Reasonably anticipated human carcinogen
2,4,6-Trinitrotoluene	Explosive, possible carcinogen
Titanium Trichloride	Water reactive; corrosive
Titanium Tetrachloride	Water reactive; corrosive; may be fatal if inhaled
o-Tolidine	Suspected carcinogen, absorbs through skin
o-Toluidine	Reasonably anticipated human carcinogen; mutagen
Toluene	Flammable, toxic
o-Toluidine Blue	Suspected carcinogen, absorbs through skin
p-Toluidine	Suspected carcinogen, absorbs through skin
2,4,6 - trinitrotoluene	Explosive, possible carcinogen
Trichloroacetic Acid	Animal mutagen
1,1,1-Trichloroethane	Reproductive and mutagenic effects in animals
1,1,2-Trichloroethane	Suspected carcinogen, absorbs through skin
Trichloroethylene	Positive animal carcinogen, suspected human carcinogen
Triethylamine	Flammable, toxic, irritant
Urathane	Combustible; reasonably anticipated human carcinogen
Uranium	Radioactive
Uranyl Acetate	Radioactive
Uranyl Nitrate	Radioactive
Vinyl Bromide	Suspected carcinogen
Vinyl Chloride	OSHA listed carcinogen
Wood's Metal	May be fatal if inhaled or ingested; known human carcinogen
Xylene	Flammable, toxic
Zinc Chromates	Known human carcinogen (ACGIH)

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