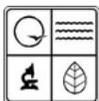


Missouri
Department of
Natural Resources

ATTACHMENT 4
CHEMICAL INVENTORY LISTING

Attachment 4
Chemical Inventory

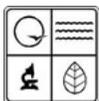
NUMBER OF CONTAINERS	CONTAINER SIZE	AMOUNT FILLED AS A PERCENTAGE	CHEMICAL NAME	RISK	STORAGE CATEGORY	HAZARDS	HEALTH	FLAMMABILITY	REACTIVITY	SPECIAL HAZARD
EXTREMELY HAZARDOUS CHEMICALS										
			Ammonium Perchlorate	3	I-6	Shock sensitive.	1	0	4	OX
			Benzoyl Peroxide	3	O-6	Organic peroxide, flammable, oxidizer.	1	0	3	
			Butanol, 2- (sec-butyl alcohol)	2	O-2 Flam Cabinet	Flammable. Can form explosive peroxides on concentration.	1	3	0	
			Carbon Disulfide	3	I-5 Flam Cabinet	Flammable, poison, P-listed*, reacts with acids to form poisonous H2S gas.	3	4	0	
			Collodion (Nitrocellulose)	3	O-4 Flam Cabinet	Flammable. Explosive when dry. Ether/Nitrocellulose compound.	1	4	0	
			Dinitrophenol, 2,4-	3	O-4	Poison by inhalation, skin absorption. Explosive when dry.	3	3	1	
			ether or anhydrous ether)	3	O-4 Flam Cabinet	Flammable. Peroxide former. Explosion risk.	1	4	1	
			Hydrogen Peroxide, >29%	2	I-6	Powerful oxidizer. Corrosive to skin.	3	0	1	OX
			Nicotine	3	O-2	Poison. P-listed* Highly toxic.	4	1	0	
			Nitroglycerin	3	O-4 Explosive	Explosive. Shock sensitive.	3	1	2	
			Perchloric Acid	3	I-9 Acid Cabinet	Powerful oxidizer. Highly corrosive. Potential explosive in contact w/ metals.	3	0	3	OX
			Phosphorus, Yellow or White	3	I-10 Flam Cabinet	Spontaneously ignites in air. Poison.	4	4	2	
			Picric Acid, Trinitrophenol	3	O-8 Organic Acid	Explosive when dry. Explosive crystals form in contact with metals.	3	4	4	
			Sodium Azide	3	I-3	Poison, explosive reaction with metals. P-listed* Extremely hazardous.	3	0	3	
OTHER CHEMICALS										
			Acacia	1	O-1 Organic Acid	Dust at sufficient concentrations can form explosive mixtures with air.	0	0	0	
			Acetaldehyde	3	O-3 Flam Cabinet	Suspect carcinogen. Highly flammable. Peroxide former. Severe irritant to eyes.	3	4	2	
			Acetamide	---	O-2	Not regulated as hazardous.	0	0	0	
			Acetic Acid, >6M	2	O-1 Organic Acid	Corrosive.	3	2	0	
			Acetic Acid, Glacial	1	O-1 Flam Cabinet	Corrosive. Combustible.	3	2	0	
			Acetic Anhydride	2	O-1 Flam Cabinet	Corrosive, flammable.	3	2	1	
			Aceto Carmine	---	O-Misc	Not regulated as hazardous.	0	0	0	



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			Acetone	2	O-4 Flam Cabinet	Highly flammable.	1	3	0	
			Acetonitrile	2	O-7 Flam Cabinet	Flammable. Toxic by skin absorption, inhalation & ingestion.	2	3	0	
			Acetyl Chloride	3	O-4 Acid Cabinet	Corrosive. Reacts with water & alcohol.	3	3	2	W
			Acrolein (acrylaldehyde)	3	O-3 Flam Cabinet	Flammable. Inhalation toxin. Severe irritant. Many incompatibilities. P-listed*.	4	3	3	
			Acrylamide	3	O-3	Toxic by absorption, suspected carcinogen.	2	2	2	
			Acrylic Acid	3	O-8 Organic Acid	Corrosive. Poison by inhalation & skin absorption. Flammable.	3	2	2	
			Acrylonitrile	3	O-7 Flam Cabinet	Flammable. Poison by inhalation, skin absorption. Carcinogen.	4	3	2	
			Adenine	---	O-2	Not regulated as hazardous.	0	0	0	
			Adipoyl Chloride	2	O-1 Organic Acid	Corrosive; absorbs through skin, lachrymator.	2	2	0	
			Adrenaline (Epinephrine)	3	O-2	Toxic. Theft risk. Drug Precursor.	3	0	0	
			Agar	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Albumin	1		May cause irritation.	1	0	0	
			Alizarine Paste	1	O-9	Severe irritant.	0	0	0	
			Alum	2		Hydrolyzes with water to form sulfuric acid.	2	0	1	
			Alumina	1		Not regulated as hazardous.	1	0	0	
			Aluminum Ammonium Sulfate	---	I-2	Not regulated as hazardous.	0	0	0	
			Aluminum Chloride, anhydrous	2	I-2	Water reactive. Corrosive.	3	0	2	W
			Aluminum Chloride, hydrate	---	I-2	Not regulated as hazardous.	0	0	0	
			Aluminum Hydroxide	1	I-4	Irritant.	1	0	0	
			Aluminum Nitrate	1	I-3	Oxidizer.	1	0	0	OX
			Aluminum Oxide	---	I-4	Not regulated as hazardous.	0	0	0	
			Aluminum Potassium Sulfate	---	I-2	Not regulated as hazardous.	0	0	0	



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			Aluminum Sulfate	---	I-2	Not regulated as hazardous.	0	0	0	
			Aluminum, metal lump	---	I-1	Not regulated as hazardous.	0	0	0	
			Aluminum, powder	1	I-1	Highly flammable as dust.	0	3	1	
			Aminoacetic Acid	1		Not regulated as hazardous.	1	1	0	
			Ammonia, gas cylinders	3	Poison Gas	Corrosive lachrymator, intense irritant, theft risk.	3	1	0	
			Ammonia, household liquid	---	I-4 Base Cabinet	Severe eye irritant. Moderately corrosive to skin.	1	0	0	
			Ammonium Acetate	---	I-2	Not regulated as hazardous.	0	0	0	
			Ammonium Bicarbonate	---	I-4	Not regulated as hazardous.	0	0	0	
			Ammonium Bichromate	3	I-8	Powerful oxidizer, toxic, carcinogen.	2	1	1	OX
			Ammonium Bifluoride	3	I-2	Caustic, poison, severe irritant. Reacts with water, forms hydrofluoric acid.	3	0	2	
			Ammonium Carbonate	---	I-4	Not regulated as hazardous.	0	0	0	
			Ammonium Chloride	---	I-2	Not regulated as hazardous.	0	0	0	
			Ammonium Chromate	3	I-8	Oxidizer, toxic, carcinogen.	1	1	1	OX
			Ammonium Citrate	---	I-8	Not regulated as hazardous.	0	0	0	
			Ammonium Dichromate	3	I-8	Powerful oxidizer, toxic, carcinogen.	2	1	1	OX
			Ammonium Fluoride	2	I-2	Caustic. Toxic.	3	0	0	
			Ammonium Hydroxide (>3 Molar)	1	I-4 Base Cabinet	Corrosive. Lachrymator.	3	1	0	
			Ammonium Hydroxide, concentrated	1	I-4 Base Cabinet	Corrosive. Lachrymator.	3	1	0	
			Ammonium Iodide	---	I-2	Not regulated as hazardous.	0	0	0	
			Ammonium Metavanadate	1	I-8	Poison. Emits ammonia gas if heated.	3	0	0	
			Ammonium Molybdate	1	I-8	Irritant. Toxic by ingestion.	1	0	0	
			Ammonium Nitrate	2	I-8 Separate	Powerful oxidizer, reactive with organic compounds.	0	0	3	OX

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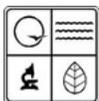
NUMBER OF CONTAINERS	CONTAINER SIZE	AMOUNT FILLED AS A PERCENTAGE	CHEMICAL NAME	RISK	STORAGE CATEGORY	HAZARDS	HEALTH	FLAMMABILITY	REACTIVITY	SPECIAL HAZARD
			Ammonium Oxalate	2	I-2	Toxic via ingestion & inhalation. Corrosive.	2	0	0	
			Ammonium Persulfate	1	I-6	Oxidizer. Moderately toxic. Strong irritant.	1	3	0	OX
			Ammonium Phosphate	---	I-2	Not regulated as hazardous.	0	0	0	
			Ammonium Sulfate	---	I-2	Not regulated as hazardous.	0	0	0	
			Ammonium Sulfide	2	I-5	Poison, reacts with acids to form poisonous H2S gas.	3	2	1	
			Ammonium Thiocyanate	---	I-7	Slightly toxic by ingestion.	0	0	0	
			Amyl Acetate	1	O-3 Flam Cabinet	Flammable.	1	3	0	
			Amyl Alcohol	1	O-2 Flam Cabinet	Flammable. Severe irritant.	1	3	0	
			Aniline	3	O-2	Carcinogen, toxic, absorbs through skin.	3	2	0	
			Aniline Hydrochloride	3	O-2	Poison.	3	1	0	
			Anisole	1		Flammable.	1	2	0	
			Antimony Trichloride	3	I-2	Corrosive; emits hydrogen chloride gas if moistened.	3	0	2	
			Antimony, lump	1	I-1	Toxic.	0	0	0	
			Antimony, powder	2	I-1	Flammable solid. Toxic.	1	1	0	
			Arsenic Oxide	3	I-4	Deadly poison & carcinogen. P-listed*.	3	0	0	
			Arsenic Trioxide	3	I-7	Deadly poison & carcinogen. P-listed*.	3	0	0	
			Ascarite	1	I-4	Sodium hydroxide coated silica. Corrosive.	3	0	2	
			Ascorbic Acid	---	O-1	Not regulated as hazardous.	0	0	0	
			Balsam Canada	1		Not regulated as hazardous.	0	0	0	
			Barium Acetate	1	I-2	Toxic by ingestion.	1	0	0	
			Barium Carbonate	1	I-4	Toxic by ingestion.	1	0	0	
			Barium Chloride	2	I-2	Deadly poison.	2	0	0	

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			Barium Chromate	3	I-8	Toxic, oxidizer, carcinogen.	2	0	1	OX
			Barium Hydroxide	1	I-4	Toxic by ingestion.	1	0	0	
			Barium Nitrate	2	I-3	Toxic. Oxidizer.	1	0	0	OX
			Barium Peroxide	2	I-6	Toxic by ingestion. Oxidizer. Corrosive.	1	0	0	OX
			Barium Sulfate	1	I-2	Toxic by ingestion.	1	0	0	
			Benedict's Solution	---	I-2	Toxic.	0	0	0	
			Benzaldehyde	2	O-3 Flam Cabinet	Combustible. Ingestion of small amount can cause convulsions.	2	2	0	
			Benzene	3	O-3 Flam Cabinet	Flammable. Carcinogen. Toxic.	2	3	0	
			Benidine	3	O-2	Carcinogen. Absorbs thru skin. Avoid contact! Poison. Use is banned in many countries.	1	0	0	
			Benzoic Acid	---	O-1	Not regulated as hazardous.	0	0	0	
			Benzonitrile	3	O-7 Flam Cabinet	Toxic. Organic cyanide, reacts with acids to produce poison gas. Combustible.	2	2	1	
			Benzoyl Chloride	3	O-3 Flam Cabinet	Corrosive. Combustible. Inhalation hazard.	3	2	2	W
			Beryllium	3	I-1	Poison. Dust is P-listed* & highly toxic. Carcinogen.	3	1	0	
			Bismuth Trichloride	1	I-2	Corrosive. Toxic.	0	0	0	
			Bismuth, lump	---	I-1	Not regulated as hazardous.	0	0	0	
			Biuret Test Solution	1	I-4 Base Cabinet	Copper sulfate + sodium hydroxide. Corrosive. Toxic.	3	0	1	
			Boileezers (Aluminum Oxide)	1		Skin irritant.	1	0	0	
			Boric Acid	---	I-9 Acid Cabinet	Slightly toxic by ingestion.	1	0	0	
			Bouin's Solution	3	O-8 Organic Acid	Diluted picric acid. Explosive when dry.	2	1	0	
			Brilliant Green	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Bromine Water	1	I-2 Acid Cabinet	Corrosive. Irritating fumes.	3	0	0	OX
			Bromine, concentrated	3	I-2 Acid Cabinet	Corrosive, oxidizer, volatile liquid, poison fumes.	3	0	0	OX

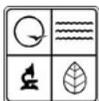
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			Bromobenzene	3	O-4 Flam Cabinet	Flammable. Toxic. Bioaccumulative pollutant.	2	2	0	
			Bromobutane	2	O-4 Flam Cabinet	Persistent pollutant. Mixed with flammable alcohols.	2	3	0	
			Bromocresol Stains	---	O-Misc	Persistent pollutant.	0	0	0	
			Bromoform	2	O-4	Toxic. Lachrymator. Bioaccumulative pollutant.	3	0	1	
			Bromophenol Stains	---	O-Misc	Persistent pollutant.	0	0	0	
			Bromothymol Blue	---	O-Misc	Persistent pollutant.	0	0	0	
			Buffers, pH 10	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Buffers, pH 4	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Buffers, pH 7	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Butanol, 1- (n-butyl alcohol)	1	O-2 Flam Cabinet	Flammable. Moderately toxic.	1	3	0	
			Butanol, 3- (tert-butyl alcohol)	1	O-2 Flam Cabinet	Flammable. Moderately toxic.	1	3	0	
			Butoxyethanol	2	O-2 Flam Cabinet	Toxic by skin absorption. Combustible.	0	0	0	
			Butyraldehyde	1	O-3 Flam Cabinet	Flammable. Toxic via skin absorption.	3	3	2	
			Butyric Acid	2	O-1 Acid Cabinet	Corrosive; intense stench. Combustible. Theft risk.	3	2	0	
			Cadmium Chloride	3	I-2	Toxic heavy metal, carcinogen.	4	0	0	
			Cadmium Nitrate	3	I-3	Toxic heavy metal, carcinogen. Oxidizer.	2	0	0	OX
			Cadmium, powder	3	I-1	Carcinogen. Poison.	3	0	0	
			Caffeine	2	O-2	Toxic.	0	0	0	
			Calcium Acetate	---	I-2	Not regulated as hazardous.	0	0	0	
			Calcium Arsenate	3		Carcinogen. Corrosive. Mutagen.	3	0	0	
			Calcium Bromide	---	I-2	Not regulated as hazardous.	0	0	0	
			Calcium Carbide	2	I-5	Reacts with water to produce flammable acetylene gas.	3	3	2	W



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			Calcium Carbonate	---	I-4	Not regulated as hazardous.	0	0	0	
			Calcium Chloride	---	I-2	Not regulated as hazardous.	0	0	0	
			Calcium Fluoride (Fluorspar)	1	I-2	Poison by ingestion. Emits toxic fumes when heated.	0	0	0	
			Calcium Hydroxide	1	I-4	Moderately corrosive, especially to eyes.	1	0	1	
			Calcium Hypochlorite	1	I-6	Toxic. Strong oxidizer. Body tissue irritant.	3	0	1	OX
			Calcium Nitrate	1	I-3	Oxidizer.	1	0	0	OX
			Calcium Oxide	2	I-4	Corrosive. Reacts with water.	3	0	1	
			Calcium Phosphate	---	I-2	Not regulated as hazardous.	0	0	0	
			Calcium Phosphide	3	I-5	Emits poisonous, flammable phosphine gas when wet.	4	3	3	W
			Calcium Sulfate	---	I-2	Not regulated as hazardous.	0	0	0	
			Calcium Sulfide	2	I-5	Poison, reacts with acids to form poisonous H ₂ S gas.	0	1	0	
			Calcium, metal	1	I-1	Water reactive.	3	1	2	W
			Calomel (Mercurous Chloride)	3	I-2	Extreme poison.	3	0	0	
			Camphor	1	O-4	Combustible. Toxic.	1	1	0	
			Carbol Fuchsin Solution	2	O-8 Flam Cabinet	Phenol + Ethanol. Toxic & flammable.	2	1	0	
			Carbon	---	I-10	Combustible solid.	0	1	0	
			Carbon Tetrachloride	3	O-4	Toxic, carcinogen. Bioaccumulative pollutant.	3	0	0	
			Carmine	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Carnoy's Fixative Solution	3	O-4 Flam Cabinet	Chloroform + acetic acid + ethanol. Flammable. Corrosive. Carcinogen.	2	4	0	
			Casein	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Castile Soap	1		Not regulated as hazardous.	0	0	0	
			Catechol	2	O-8	Poison. Powerful allergen.	3	1	0	



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			Cedarwood Oil	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Celite	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Cellulose	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Ceric Ammonium Nitrate	1	I-3	Oxidizer.	1	0	0	OX
			Charcoal	---	I-10	Combustible.	0	1	0	
			Chloral Hydrate	3	O-2	Hypnotic drug. Controlled substance.	2	0	0	
			Chloretone	3	O-4	Poison. Narcotic. Controlled substance.	3	1	0	
			Chlorine water	1	I-2 Acid Cabinet	Corrosive. Irritating fumes.	3	0	0	
			Chlorine, gas cylinders	3	Poison Gas	Poison gas. Corrosive.	4	0	0	OX
			Chlorobenzene	3	O-4 Flam Cabinet	Flammable, toxic via inhalation & contact. Bioaccumulative pollutant.	2	3	0	
			Chloroethanol	3	O-4 Flam Cabinet	Poison by skin absorption. Can produce acid gas. Flammable. Bioaccumulative.	4	2	0	
			Chloroform	3	O-4	Carcinogen. If old forms deadly Phosgene gas. Bioaccumulative pollutant.	2	0	0	
			Chlorophenol, p-	3	O-4	Poison by ingestion. Severe irritant. Bioaccumulative pollutant.	2	0	0	
			Chloroprene	3	O-4 Flam Cabinet	Flammable. Poison. Bioaccumulative pollutant. Affects central nervous system.	3	3	0	
			Chlorosulfonic Acid	3	O-1 Acid Cabinet	Toxic inhalation hazard. Highly corrosive. Bioaccumulative pollutant.	4	0	2	W, OX
			Cholesterol	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Chromic Acid	3	I-8 Acid Cabinet	Strong oxidizer. Poison. Carcinogen. Corrosive.	3	0	1	OX
			Chromium Chloride	1	I-2	Severe Irritant. Slightly toxic by ingestion, inhalation, skin.	1	0	2	
			Chromium Nitrate	2	I-3	Oxidizer. Toxic.	1	0	0	OX
			Chromium Potassium Sulfate	---	I-2	Not regulated as hazardous.	0	0	0	
			Chromium Sulfate	---	I-2	Not regulated as hazardous.	0	0	0	
			Chromium Trioxide	3	I-4	Oxidizer. Poison. Carcinogen.	3	0	2	

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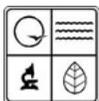
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			Chromium, lump	---	I-1	Not regulated as hazardous.	0	0	0	
			Citric Acid	---	O-1	Not regulated as hazardous.	0	0	0	
			Cobalt Chloride	1	I-2	Toxic. Possible carcinogen.	0	0	0	
			Cobalt Nitrate	1	I-3	Oxidizer. Suspect carcinogen. Toxic.	1	0	0	OX
			Cobalt Sulfate	---	I-2	Toxic by ingestion.	0	0	0	
			Cobalt, powder	2	I-1	Flammable solid. Toxic.	1	1	0	
			Colchicine	3	O-2	Deadly poison. Affects cell division. Severe eye irritant.	3	1	0	
			Congo Red	1	O-Misc	Toxic.	1	0	0	
			Copper Acetate	1	I-2	Toxic by ingestion.	1	0	0	
			Copper Bromide	1	I-2	Toxic by ingestion.	1	0	0	
			Copper Carbonate	1	I-4	Toxic by ingestion.	1	0	0	
			Copper Chloride	1	I-2	Toxic by ingestion & inhalation.	2	0	0	
			Copper Cyanide	3	I-7	Severe poison. P-listed*. Releases poison gas when acidified even slightly.	3	0	0	
			Copper Nitrate	2	I-3	Oxidizer. Toxic.	1	0	0	OX
			Copper Sulfate	1	I-2	Toxic by ingestion.	1	0	0	
			Copper Sulfide	2	I-5	Poison, reacts with acids to form poisonous H2S gas.	3	1	1	
			Creatine	---	O-1	Not regulated as hazardous.	0	0	0	
			Creosote	3	O-8 Flam Cabinet	Carcinogen. Combustible.	2	2	0	
			Cresol	3	O-8 Organic Acid	Corrosive to skin & eyes. Toxic via ingestion, skin absorption.	3	2	0	
			Cresol Purple Dye	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Crystal Violet	1	O-Misc	Severe eye irritant. Toxic by ingestion.	2	1	1	
			Cumene	3	O-4 Flam Cabinet	Flammable. Central nervous system depressant. Peroxide former. Explosion risk.	2	3	1	

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			Cupric Oxide	1	I-4	Irritant to skin.	0	0	0	
			Cyanogen Bromide	3	O-4	Poison. Corrosive. Reacts with acids to form poison gas.	4	0	1	
			Cyclohexane	1	O-3 Flam Cabinet	Highly flammable.	1	3	0	
			Cyclohexanol	1	O-2 Flam Cabinet	Combustible. Peroxidizable. Toxic by inhalation.	1	2	0	
			Cyclohexanone	1	O-4 Flam Cabinet	Combustible.	0	2	0	
			Cyclohexene	3	O-3 Flam Cabinet	Flammable, peroxide former.	1	3	0	
			Denatured Alcohol	1	O-2 Flam Cabinet	Flammable. Toxic via ingestion. Source of many lab fires. Methanol + Ethanol.	2	4	0	
			Dichlorobenzene, p-	2	O-4	Toxic. Severe irritant.	2	2	0	
			Dichloroethane, 1,2- (ethylene dichloride)	3	O-4 Flam Cabinet	Flammable. Toxic. Bioaccumulative pollutant.	1	4	0	
			Diethylamine	3	O-2 Flam Cabinet	Flammable. Corrosive to skin & eyes.	3	3	0	
			Dimethyl Aniline	3	O-2 Flam Cabinet	Combustible. Poison by ingestion. Irritant. Central nervous system depressant.	3	2	0	
			Dimethylglyoxime	1	O-2	Toxic by inhalation, ingestion, and skin contact.	2	1	0	
			Dimethyl Sulfoxide	1	O-7	Combustible.	1	1	0	
			Dinitrophenyl Hydrazine, 2,4-	3	O-4	Explosion risk.	1	2	2	
			Dioxane, 1,4-	3	O-4 Flam Cabinet	Flammable. Peroxide former. Explosion risk.	2	3	1	
			Drierite (anhydrous calcium sulfate)	---	I-Misc	Not regulated as hazardous.	0	0	0	
			EDTA	---	I-1	Not regulated as hazardous.	0	0	0	
			Epsom Salts	---	I-2	Not regulated as hazardous.	0	0	0	
			Eriochrome Black T	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Estrone	3	O-2	Steroid. Carcinogen. Theft Risk.	0	0	0	
			Ethanol (ethyl alcohol)	1	O-2 Flam Cabinet	Flammable.	0	4	0	
			Ethidium Bromide	2	O-2	Potent Mutagen.	3	0	0	

Attachment 4
Chemical Inventory

NUMBER OF CONTAINERS	CONTAINER SIZE	AMOUNT FILLED AS A PERCENTAGE	CHEMICAL NAME	RISK	STORAGE CATEGORY	HAZARDS	HEALTH	FLAMMABILITY	REACTIVITY	SPECIAL HAZARD
			Ethyl Acetate	1	O-3 Flam Cabinet	Flammable.	1	3	0	
			Ethyl Carbamate (urethane)	2	O-2 Flam Cabinet	Toxic. Combustible. Possible carcinogen.	2	2	0	
			Ethyl Chloride	3	O-4 Flam Cabinet	Extremely flammable. Contact w/ water produces corrosive, toxic fumes.	2	4	0	
			Ethyl Iodide	3	O-2 Flam Cabinet	Combustible. Contact w/ water produces corrosive, toxic fumes.	3	1	1	
			Ethyl Nitrate	3	O-4 Explosive	Explosive.	3	4	4	
			Ethylene Glycol	1	O-2	Toxic.	1	0	0	
			Ethylenediamine	3	O-2 Flam Cabinet	Flammable. Toxic by inhalation. Corrosive base.	3	2	0	
			Ethyleneimine	3	O-2 Flam Cabinet	Flammable. Toxic. P-listed.	4	3	3	
			Fast Green Dye	1	O-Misc	Toxic.	0	0	0	
			Fehling's Solutions	2		Corrosive.	3	0	0	
			Ferric Chloride	1	I-2	Corrosive to skin & eyes.	1	0	0	
			Ferric Nitrate	1	I-3	Oxidizer.	1	0	0	
			Ferric Oxide	1	I-4	Severe irritant.	0	0	0	
			Ferric Sulfate	---	I-2	Not regulated as hazardous.	0	0	0	
			Ferrous Ammonium Sulfate	---	I-2	Not regulated as hazardous.	0	0	0	
			Ferrous Oxide	1	I-4	Flammable as powder.	2	0	0	
			Ferrous Sulfate	1	I-2	Slightly toxic by ingestion.	1	0	0	
			Ferrous Sulfide	1	I-5	Reacts with acids to form poisonous hydrogen sulfide gas.	0	0	1	
			Formaldehyde (37% Solution)	3	O-3	Toxic. Carcinogen. Severe sensitizer.	3	2	0	
			Formalin, buffered, (<10% solution)	2	O-3	Toxic. Carcinogen. Severe allergen.	2	2	0	
			Formic Acid	2	O-1 Organic Acid	Corrosive. May degrade & pressurize sealed container.	3	2	0	
			Fructose	---	O-Misc	Not regulated as hazardous.	0	0	0	



Attachment 4

Chemical Inventory

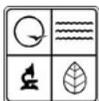
NUMBER OF CONTAINERS	CONTAINER SIZE	AMOUNT FILLED AS A PERCENTAGE	CHEMICAL NAME	RISK	STORAGE CATEGORY	HAZARDS	HEALTH	FLAMMABILITY	REACTIVITY	SPECIAL HAZARD
			Fuller's Earth	---		Not regulated as hazardous.	1	0	0	
			Furfural	3	O-3 Flam Cabinet	Combustible. Toxic via inhalation & ingestion. Dangerous to eyes.	3	2	0	
			Galactose	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Gelatin	---	O-2	Not regulated as hazardous.	0	0	0	
			Gentian Violet	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Gibberelic Acid	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Giemsa Stain	1	O-2 Flam Cabinet	Flammable as mixture with alcohol.	0	2	0	
			Glucose	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Glutaraldehyde (>10%)	1	O-3	Toxic via inhalation & skin absorption. Strong irritant.	3	0	1	
			Glycerin	---	O-2	Not regulated as hazardous.	0	0	0	
			Gram's Iodine Stain	1	O-Misc	Moderately corrosive to tissues, especially eyes.	2	0	1	
			Graphite	---	O-1	Flammable Solid.	0	1	0	
			Gum Arabic	---	O-1	Not regulated as hazardous.	0	0	0	
			Gunpowder	3	I-4 Flam Cabinet	Explosive, theft risk.	0	4	3	
			Hayem Diluting Fluid	3	I-2	Contains mercuric chloride. Severe poison.	3	0	0	
			Helium	---	Gas Cylinder	Not regulated as hazardous.	0	0	0	
			Heptane	1	O-3 Flam Cabinet	Flammable.	1	3	0	
			Hexamethylenediamine (1,6-hexanediamine)	2	O-2 Base Cabinet	Corrosive if in typical solution with sodium hydroxide. Absorbs through skin, lachrymator.	2	0	0	
			Hexane	1	O-3 Flam Cabinet	Flammable.	1	3	0	
			Hexanes	2	O-3 Flam Cabinet	Flammable.	1	2	0	
			Hydrazine	3	O-2 Flam Cabinet	Flammable. Poison by inhalation & skin absorption. Carcinogen. Corrosive to skin.	3	3	3	
			Hydrazine Sulfate	3	O-2	Poison. Absorbs through skin. Carcinogen.	3	0	1	

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Chemical Inventory

NUMBER OF CONTAINERS	CONTAINER SIZE	AMOUNT FILLED AS A PERCENTAGE	CHEMICAL NAME	RISK	STORAGE CATEGORY	HAZARDS	HEALTH	FLAMMABILITY	REACTIVITY	SPECIAL HAZARD
			Hydriodic Acid	3	I-9 Acid Cabinet	Corrosive. Toxic by inhalation.	3	0	0	
			Hydrobromic Acid	2	I-9 Acid Cabinet	Corrosive. Toxic fumes.	3	0	0	
			Hydrochloric Acid (>5 molar)	1	I-9 Acid Cabinet	Highly corrosive. Toxic via inhalation & ingestion.	3	0	0	
			Hydrofluoric Acid	3	I-9 Acid Cabinet	Corrosive. Poison. Absorbs readily through skin.	4	0	0	
			Hydrogen Peroxide, 3%	---	I-6	Not regulated as hazardous.	0	0	0	
			Hydrogen Sulfide							
			Hydrogen Sulfide, gas cylinders	3	Poison Gas	Poison. Inhalation hazard. Stench.	4	4	0	
			Hydrogen, gas cylinders	2	Flam Gas	Flammable.	0	4	0	
			Hydroquinone	3	O-2	Toxic by ingestion & inhalation. Corrosive to eyes & skin.	2	0	0	
			Immersion Oil (very old)	1	O-2	May have 10-30% PCBs such as Arochlor 1260.	0	0	0	
			Indigo Carmine	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Iodine	1	I-2	Corrosive. Toxic via inhalation of vapors & dusts.	3	0	0	
			Iodine Tincture	1	I-2 Flam Cabinet	Flammable alcohol mixture.	1	2	0	
			Iron Chloride (ferric chloride)	1	I-2	Corrosive. Toxic by ingestion.	2	0	0	
			Iron Nitrate (ferric nitrate)	1	I-3	Oxidizer.	1	0	0	OX
			Iron Sulfide (ferric sulfide)	---		Not regulated as hazardous.	1	0	0	
			Iron, lump	---	I-1	Not regulated as hazardous.	0	0	0	
			Iron, powder	---	I-1	Flammable solid.	0	1	0	
			Isopentyl Alcohol (isoamyl alcohol)	2	O-2 Flam Cabinet	Flammable. Can form explosive peroxides when concentrated.	1	2	0	
			Isopropanol (isopropyl alcohol)	1	O-2 Flam Cabinet	Flammable. Can form explosive peroxides when concentrated.	1	3	0	
			Isopropyl Ether	3	O-4 Flam Cabinet	Flammable, Highest-risk peroxide former. Explosive.	2	3	1	
			Janus Green	---	O-Misc	Not regulated as hazardous.	0	0	0	

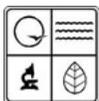
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Chemical Inventory

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			Kaolin (aluminum silicate)	---	I-4	Not regulated as hazardous.	0	0	0	
			Kerosene	1	O-3	Combustible.	0	1	0	
			Lactic Acid	1	O-1 Organic Acid	Corrosive. Toxic.	3	0	0	OX
			Lactose	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Lactose Broth	---		Not regulated as hazardous.	0	1	0	
			Lanolin	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Lanthanum Chloride	---		Not regulated as hazardous.	1	0	0	
			Lauric Acid	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Lauroyl Peroxide	2	O-6	Severe irritant. Powerful oxidizer.	1	2	3	
			Lead Acetate	2	I-2	Poison.	3	1	0	
			Lead Carbonate	2	I-4	Poison.	3	0	0	
			Lead Chloride	2	I-2	Poison.	3	0	0	
			Lead Chromate	3	I-8	Highly poisonous. Possible carcinogen.	3	0	0	OX
			Lead Dioxide	2	I-4	Poison. Oxidizer.	3	0	0	OX
			Lead Iodide	2	I-2	Poison.	3	0	0	
			Lead Monoxide (Litharge)	2	I-4	Poison.	3	0	0	
			Lead Nitrate	2	I-3	Poison. Oxidizer.	3	0	0	OX
			Lead Oxide	2	I-4	Poison.	3	0	0	
			Lead Sulfate	2	I-2	Poison.	3	0	0	
			Lead, lump	1	I-1	Toxic when scraped into shavings or powder or if acidified.	1	0	0	
			Lead, powder	3	I-1	Poison.	2	1	0	
			Lime Water (calcium hydroxide solution)	1	I-4	Moderately corrosive to tissues, especially eyes.	1	0	0	



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Chemical Inventory

NUMBER OF CONTAINERS	CONTAINER SIZE	AMOUNT FILLED AS A PERCENTAGE	CHEMICAL NAME	RISK	STORAGE CATEGORY	HAZARDS	HEALTH	FLAMMABILITY	REACTIVITY	SPECIAL HAZARD
			Lithium Aluminum Hydride	3	I-1	Flammable solid. Reacts with air, water & organics.	3	2	2	W
			Lithium Carbonate	---	I-4	Not regulated as hazardous.	0	0	0	
			Lithium Chloride	---	I-2	Not regulated as hazardous.	0	0	0	
			Lithium Fluoride	1	I-2	Poison by ingestion. Emits toxic fumes when heated.	1	0	0	
			Lithium Hydroxide	1	I-4	Corrosive.	1	0	0	
			Lithium Nitrate	1	I-3	Oxidizer.	1	0	0	OX
			Lithium Sulfate	---	I-2	Not regulated as hazardous.	0	0	0	
			Lithium, Metal	2	I-1	Reacts with water & nitrogen in air. Flammable solid.	3	2	2	W
			Litmus	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Lugol's Iodine	---	I-2	Moderately corrosive to tissues, especially eyes.	2	0	1	
			Luminol	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Lycopodium	1	O-Misc	Highly flammable if dust is mixed with air.	0	1	0	
			Lye	2	I-4 Base Cabinet	Sodium hydroxide. Highly corrosive, especially to eyes.	3	0	1	
			Magnesium Bromide	---	I-2	Not regulated as hazardous.	0	0	0	
			Magnesium Carbonate	---	I-4	Not regulated as hazardous.	0	0	0	
			Magnesium Chloride	---	I-2	Not regulated as hazardous.	0	0	0	
			Magnesium Nitrate	1	I-3	Oxidizer.	1	0	0	OX
			Magnesium Oxide	---	I-4	Not regulated as hazardous.	0	0	0	
			Magnesium Perchlorate (Anhydron)	3	I-6	Powerful oxidizer. Explosive reaction with alcohols.	1	0	0	OX
			Magnesium Sulfate	---	I-2	Not regulated as hazardous.	0	0	0	
			Magnesium, powder	2	I-1	Highly flammable. May spontaneously ignite when wet or if friction is applied.	0	1	1	W
			Magnesium, turnings or ribbon	1	I-1	Flammable solid.	0	1	0	



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Chemical Inventory

NUMBER OF CONTAINERS	CONTAINER SIZE	AMOUNT FILLED AS A PERCENTAGE	CHEMICAL NAME	RISK	STORAGE CATEGORY	HAZARDS	HEALTH	FLAMMABILITY	REACTIVITY	SPECIAL HAZARD
			Malachite Green	---	O-Misc	Causes eye burns. Harmful if swallowed or inhaled.	2	0	0	
			Maleic Acid	1	O-1	Combustible. Moderately corrosive to eyes and mucosa.	1	1	0	
			Malonic Acid	1	O-1 Organic Acid	Toxic.	1	1	1	
			Maltose	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Manganese Carbonate	---	I-4	Not regulated as hazardous.	0	0	0	
			Manganese Chloride	---	I-2	Not regulated as hazardous.	0	0	0	
			Manganese Dioxide	1	I-4	Oxidizer. Toxic.	2	0	2	OX
			Manganese Nitrate	1	I-3	Oxidizer.	1	0	0	
			Manganese Sulfate	---	I-2	Not regulated as hazardous.	0	0	0	
			Manganese, dust	1	I-1	Flammable solid.	0	1	0	
			Manganous Chloride	1	I-2	Slightly toxic by ingestion.	1	0	0	
			Mannitol	---	O-2	Not regulated as hazardous.	1	1	0	
			Marble Chips	---	I-4	Not regulated as hazardous.	0	0	0	
			Mercaptoethanol	3	O-2 Flam Cabinet	Flammable. Corrosive. Intense stench.	3	2	1	
			Mercuric Chloride	3	I-2	Poison.	3	0	0	
			Mercuric Iodide	3	I-2	Poison.	2	0	0	
			Mercuric Nitrate	3	I-3	Poison. Oxidizer.	3	0	0	OX
			Mercuric Sulfate	3	I-2	Poison.	3	0	0	
			Mercuric Sulfide	3	I-5	Poison. Reacts with acids to form poisonous hydrogen sulfide gas.	3	0	1	
			Mercurochrome	2	O-2	Toxic. Mercury compound.	3	0	0	
			Mercurous Chloride	3	I-2	Poison.	2	0	0	
			Mercurous Nitrate	3	I-3	Poison. Oxidizer.	3	0	0	OX

Attachment 4
Chemical Inventory

NUMBER OF CONTAINERS	CONTAINER SIZE	AMOUNT FILLED AS A PERCENTAGE	CHEMICAL NAME	RISK	STORAGE CATEGORY	HAZARDS	HEALTH	FLAMMABILITY	REACTIVITY	SPECIAL HAZARD
			Mercurous Sulfate	3	I-2	Poison.	3	0	0	
			Mercury Thermometers	2	I-1 Separate	Toxic heavy metal. Carcinogen. Volatile liquid. Corrosive.	2	0	0	
			Mercury, liquid	2	I-1	Toxic heavy metal. Carcinogen. Volatile liquid. Corrosive.	2	0	0	
			Methanol (methyl alcohol)	1	O-2 Flam Cabinet	Flammable. Toxic via ingestion. Source of many lab fires.	2	4	0	
			Methyl Ethyl Ketone	2	O-4 Flam Cabinet	Flammable. Dangerous fire risk. Toxic.	1	3	0	
			Methyl Iodide (Iodomethane)	3	O-4 Flam Cabinet	May be a narcotic; Carcinogen. Lachrymator.	3	0	1	
			Methyl Isobutyl Ketone	2	O-4 Flam Cabinet	Flammable. Peroxidizable. Toxic.	2	3	1	
			Methyl Isocyanate	3	O-5 Flam Cabinet	Flammable, dangerous fire risk, toxic.	4	3	1	W
			Methyl Isopropyl Ketone	2	O-4 Flam Cabinet	Flammable. Toxic by ingestion. Skin irritant.	1	3	0	
			Methyl Methacrylate	2	O-3 Flam Cabinet	Flammable. Toxic via inhalation. Can polymerize violently.	2	3	2	
			Methyl Orange	1	O-9	Not regulated as hazardous.	2	0	0	
			Methyl Red	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Methyl Salicylate	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Methyl Violet	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Methylamine	3	O-2 Flam Cabinet	Flammable. Corrosive. Intense stench. Inhalation toxin.	3	4	0	
			Methylene Blue	---	O-Misc	Poison via ingestion.	0	0	0	
			Methylene Chloride	2	O-4	Suspected carcinogen. Bioaccumulative pollutant. Toxic.	2	1	0	
			Millon's Reagent	3	I-9 Acid Cabinet	Mercury nitrate + nitric acid. Deadly poison. Highly corrosive.	3	0	0	OX
			Mineral Oil	---	O-3	Combustible.	0	1	0	
			Molisch Reagent	1	O-2 Flam Cabinet	Napthol + ethanol. Toxic & flammable.	1	3	0	
			Molybdenum, dust	1	I-1	Flammable.	0	1	0	
			Muriatic Acid (synonym for hydrochloric acid)	1	I-9 Acid Cabinet	Highly corrosive. Toxic via inhalation & ingestion.	3	0	1	

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Chemical Inventory

NUMBER OF CONTAINERS	CONTAINER SIZE	AMOUNT FILLED AS A PERCENTAGE	CHEMICAL NAME	RISK	STORAGE CATEGORY	HAZARDS	HEALTH	FLAMMABILITY	REACTIVITY	SPECIAL HAZARD
			Naphthalene	1	O-3	Toxic by ingestion, inhalation & skin absorption.	2	2	0	
			Naptholbenzein, Alpha	1		Irritant.	1	0	0	
			Naphthylamine, a-	3	O-2 Flam Cabinet	Combustible, Toxic. Carcinogen. Absorbs through skin or lungs.	2	1	0	
			Nessler's Reagent	3	I-4	Mercury iodide + sodium hydroxide. Deadly poison. Corrosive.	3	0	0	
			Nigrosin			May be harmful by inhalation. Ingestion or skin asorption.				
			Niacin	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Nickel Chloride	1	I-2	All nickel dusts are carcinogenic. Toxic.	3	0	0	
			Nickel Nitrate	2	I-3	Strong oxidizer. Carcinogen as dust.	1	0	0	OX
			Nickel Oxide	2	I-4	Flammable as dust. Toxic. Carcinogen.	1	0	0	
			Nickel, dust	2	I-1	All nickel dusts are carcinogenic. Toxic.	1	0	0	
			Nickel Sulfate	1		Toxic by ingestion and inhalation. Carcinogen. Toxic.	2	0	0	
			Ninhydrin	2	O-2	Toxic. Strong irritant.	3	0	2	
			Nitric acid (>1 molar & <10 molar)	1	I-9 Acid Cabinet	Oxidizer. Toxic. Corrosive.	3	0	0	
			Nitric Acid, concentrated	2	I-9 Acid Cabinet	Poison. Highly corrosive. Powerful oxidizer.	4	0	0	OX
			Nitrilotriacetic Acid	3	O-1 Organic Acid	Confirmed carcinogen. Toxic via ingestion.	3	1	1	
			Nitrobenzene	3	O-3 Flam Cabinet	Toxic. Combustible. Oxidizer. Absorbs through skin.	3	2	1	
			Nitrogen Triiodide	3	O-4 Explosive	Explosive. Highly unstable!	2	0	4	
			Nitrophenol, 3-	2	O-8	Toxic via ingestion, inhalation.	3	0	0	
			Nitrophenol, 4-	2	O-8	Poison via inhalation, ingestion, skin contact.	3	0	0	
			Octanol, 2-	2	O-2 Flam Cabinet	Combustible. Can form explosive peroxides if concentrated.	1	2	0	
			Oleic Acid	---	O-1	Not regulated as hazardous.	0	0	0	
			Osmium Tetraoxide (Osmic Acid)	3	I-4	Poison. P-listed* Extremely Hazardous.	3	0	0	

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Chemical Inventory

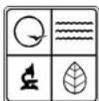
NUMBER OF CONTAINERS	CONTAINER SIZE	AMOUNT FILLED AS A PERCENTAGE	CHEMICAL NAME	RISK	STORAGE CATEGORY	HAZARDS	HEALTH	FLAMMABILITY	REACTIVITY	SPECIAL HAZARD
			Oxalic Acid	1	I-1	Toxic. Irritant.	3	1	0	
			Pancreatin	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Paraffin	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Paraformaldehyde	3	O-3	Releases poisonous formaldehyde gas when heated.	3	1	0	
			Paraldehyde	3	O-3 Flam Cabinet	Flammable. Controlled substance. Poison. Theft risk.	2	3	1	
			Pentachlorophenol	3	O-4	Extremely toxic. Bioaccumulative pollutant.	3	0	0	
			Pentane	1	O-3 Flam Cabinet	Flammable. Narcotic at high concentrations.	1	4	0	
			Pepsin	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Perchloroethylene	2	O-4	Toxic. Bioaccumulative pollutant.	2	0	0	
			Petroleum Ether	1	O-3 Flam Cabinet	Flammable.	1	4	0	
			Phenanthroline	2	O-2	Toxic by ingestion.	2	1	0	
			Phenol	2	O-8	Poison. Corrosive. Readily absorbed through skin.	4	2	0	
			Phenolphthalein	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Phenyl Red	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Phenylthiocarbamide	2	O-2	Deadly poison.	2	0	0	
			Phosphate Buffers	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Phosphoric Acid	1	I-9 Acid Cabinet	Corrosive. Toxic.	3	0	0	
			Phosphorus Pentasulfide	3	I-5	Water Reactive. Toxic. Incompatible with air & moisture.	2	1	2	W
			Phosphorus Pentoxide	3	I-10	Oxidizer. Corrosive. Toxic.	3	0	2	W
			Phosphorus, Red	2	I-10 Flam Cabinet	Flammable solid. Poison.	1	1	1	
			Physostigmine	3	O-2	P-listed*. Toxic.	0	0	0	
			Polyurethane Foam – Part B	2	O-5	Can contain toxic isocyanates. Use in hood.	2	1	1	

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			Polyvinyl Alcohol	1	O-2	Combustible as dust.	0	2	0	
			Potassium Acetate	---	I-4	Not regulated as hazardous.	0	0	0	
			Potassium Acid Phthalate	1		Not regulated as hazardous.	1	1	0	
			Potassium Bicarbonate	---	I-4	Not regulated as hazardous.	0	0	0	
			Potassium Bromate	2	I-6	Strong oxidizer. Toxic.	1	0	0	OX
			Potassium Bromide	2	I-2	Slightly toxic by ingestion. Prolonged contact with moist skin can produce severe burns.	1	0	1	
			Potassium Carbonate	---	I-4	Not regulated as hazardous.	0	0	0	
			Potassium Chlorate	2	I-6	Powerful oxidizer. Theft risk. May explode if heated.	2	0	0	OX
			Potassium Chloride	---	I-2	Not regulated as hazardous.	0	0	0	
			Potassium Chromate	2	I-8	Powerful oxidizer. Toxic. Carcinogen.	3	0	1	OX
			Potassium Citrate	---	O-1	Not regulated as hazardous.	0	0	0	
			Potassium Cyanide	3	I-7	Severe poison. P-listed*. Releases poison gas when acidified even slightly.	3	0	0	
			Potassium Dichromate	2	I-8	Powerful oxidizer. Toxic. Carcinogen.	3	0	0	OX
			Potassium Ferricyanide	1	I-7	Releases cyanide gas if heated or acidified. Toxic.	3	0	0	
			Potassium Ferrocyanide	1	I-7	Releases cyanide gas if heated or acidified. Toxic.	1	0	0	
			Potassium Fluoride (potassium bifluoride)	2	I-2	Poison by ingestion or inhalation. Severe skin irritant.	1	0	0	
			Potassium Hydroxide (>3 molar)	1	I-4 Base Cabinet	Corrosive. Blisters skin on contact.	3	0	1	
			Potassium Iodate	1	I-6	Oxidizer. Toxic.	1	0	0	OX
			Potassium Iodide	---	I-2	Not regulated as hazardous.	0	0	0	
			Potassium Nitrate	1	I-3	Oxidizer.	1	0	0	OX
			Potassium Nitrite	1	I-3	Oxidizer. Toxic by ingestion.	1	0	0	OX
			Potassium Oxalate	2	I-2	Poison. Corrosive.	4	0	0	

Attachment 4
Chemical Inventory

NUMBER OF CONTAINERS	CONTAINER SIZE	AMOUNT FILLED AS A PERCENTAGE	CHEMICAL NAME	RISK	STORAGE CATEGORY	HAZARDS	HEALTH	FLAMMABILITY	REACTIVITY	SPECIAL HAZARD
			Potassium Perchlorate	3	I-6	Powerful oxidizer. Reactivity hazard. Severe irritant.	1	0	2	OX
			Potassium Periodate	1	I-6	Oxidizer. Severe skin irritant.	1	0	2	OX
			Potassium Permanganate	1	I-8	Strong oxidizer. Strong irritant. Can explode if quickly heated.	1	0	0	OX
			Potassium Peroxide	3	I-6	Water reactive. Strong oxidizer.	3	0	1	OX
			Potassium Persulfate	1	I-6	Strong oxidizer. Strong irritant.	1	0	0	OX
			Potassium Phosphate	---	I-2	Not regulated as hazardous.	0	0	0	
			Potassium Phosphate, Monobasic	1	I-2	Slight irritant.	0	0	0	
			Potassium Sodium Tartrate	---	I-2	Not regulated as hazardous.	0	0	0	
			Potassium Sulfate	---	I-2	Not regulated as hazardous.	0	0	0	
			Potassium Sulfide	3	I-5	Flammable. Unstable, may ignite spontaneously.	3	1	0	
			Potassium Tartrate	---	I-2	Not regulated as hazardous.	0	0	0	
			Potassium Thiocyanate	1	I-7	Toxic by ingestion. Reacts with acids to release cyanide gas.	1	0	0	
			Potassium, metal	3	I-1	Water reactive, peroxide former (orange fog/crystals).	3	3	2	W
			Propanol, n-	1	O-2 Flam Cabinet	Flammable.	2	3	2	
			Propionic Acid	2	O-1 Organic Acid	Corrosive. Flammable.	3	2	0	
			Propylene Glycol	---	O-2	Not regulated as hazardous.	0	0	0	
			Pyridine	3	O-2 Flam Cabinet	Flammable. Toxic by ingestion, inhalation, skin contact Vapor forms explosive mix with air.	3	3	0	
			Pyrogallol	2	O-8	Toxic. Readily absorbed through skin.	3	0	0	
			Resorcinol	2	O-8	Toxic. Easily absorbed through skin.	3	1	0	
			Rhodamine	---	O-Misc	Not regulated as hazardous.	1	0	0	
			Ringer's Solution	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Rose Bengal	---	O-Misc	Not regulated as hazardous.	0	0	0	



Attachment 4
Chemical Inventory

NUMBER OF CONTAINERS	CONTAINER SIZE	AMOUNT FILLED AS A PERCENTAGE	CHEMICAL NAME	RISK	STORAGE CATEGORY	HAZARDS	HEALTH	FLAMMABILITY	REACTIVITY	SPECIAL HAZARD
			Rosin, Gum	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Salicylic Acid	1	O-1	Moderately toxic by ingestion.	2	1	1	
			Salol (phenyl salicylate)	---	O-3	Combustible.	1	1	0	
			Sebacoyl Chloride	2	O-1 Organic Acid	Corrosive fumes. Lachrymator.	3	1	1	
			Chloride/Hexane Solution	2	O-3 Flam Cabinet	Flammable. Corrosive.	3	3	1	
			Selenium	2	I-1	Acute poison by inhalation of powder or ingestion.	1	0	0	
			Silica Gel	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Silver Acetate	2	I-2	Toxic.	1	0	0	
			Silver Chloride	2	I-2	Toxic	1	0	0	
			Silver Cyanide	3	I-7	Severe poison. P-listed*. Releases poison gas when acidified even slightly.	3	0	0	
			Silver Iodide	1		May cause reproductive and fetal effects.	1	0	0	
			Silver Nitrate	2	I-3	Oxidizer. Poison. Corrosive.	2	0	0	OX
			Silver Oxide	2	I-4	Oxidizer. Toxic.	1	0	0	
			Soda Lime	1	I-4 Base Cabinet	Calcium oxide + sodium hydroxide. Corrosive solid. Generates heat in contact w/ water.	3	0	1	W
			Sodium Acetate	---	I-2	Not regulated as hazardous.	0	0	0	
			Sodium Arsenate	3	I-7	Deadly poison. Carcinogen.	3	0	0	
			Sodium Arsenite	3	I-7	Deadly poison. Carcinogen.	3	0	0	
			Sodium Bezoate (borax)	1	O-3	Toxic by ingestion.	1	0	0	
			Sodium Bicarbonate	---	I-4	Not regulated as hazardous.	0	0	0	
			Sodium Bismuthate	1	I-7	Oxidizer.	2	0	0	
			Sodium Bisulfate	---	I-2	Not regulated as hazardous.	0	0	0	
			(sodium hydrogen sulfite)	1	I-2	Severe skin irritant when moist. Toxic.	1	0	1	

Attachment 4
Chemical Inventory

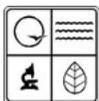
NUMBER OF CONTAINERS	CONTAINER SIZE	AMOUNT FILLED AS A PERCENTAGE	CHEMICAL NAME	RISK	STORAGE CATEGORY	HAZARDS	HEALTH	FLAMMABILITY	REACTIVITY	SPECIAL HAZARD
			Sodium Borate	---	I-8	Not regulated as hazardous.	0	0	0	
			Sodium Borohydride	3	I-1	Flammable solid. Water reactive.	3	0	2	W
			Sodium Bromate	2	I-6	Oxidizer. Toxic by ingestion.	1	1	1	
			Sodium Bromide	---	I-2	Not regulated as hazardous.	0	0	0	
			Sodium Carbonate	---	I-4	Not regulated as hazardous	0	0	0	
			Sodium Chlorate	2	I-6	Powerful oxidizer. Theft risk. May explode if heated.	1	0	2	OX
			Sodium Chloride	---	I-2	Not regulated as hazardous.	0	0	0	
			Sodium Chromate	2	I-8	Powerful oxidizer. Toxic. Carcinogen.	3	0	0	OX
			Sodium Citrate	---	I-8	Not regulated as hazardous.	0	0	0	
			Sodium Cyanide	3	I-7	Severe poison. P-listed*. Releases poison gas when acidified even slightly.	3	0	0	
			Sodium Dichromate	2	I-8	Powerful oxidizer. Toxic. Carcinogen.	3	0	0	OX
			Sodium Ferrocyanide	1	I-7	Can release cyanide gas if heated or acidified.	2	0	0	
			Sodium Fluoride (Bifluoride)	2	I-2	Poison by ingestion or inhalation. Strong skin irritant.	3	0	0	
			Sodium Hydrosulfite (sodium dithionite)	3	I-2	Water reactive. Toxic by ingestion & inhalation. An allergen. Powerful reducing agent.	2	1	2	
			Sodium Hydroxide (>3 molar)	1	I-4 Base Cabinet	Corrosive. Blisters skin on contact.	3	0	1	
			Sodium Hypochlorite (>4 % solution)	1	I-6	Toxic by ingestion & inhalation. Oxidizer. Reacts with acid to form chlorine gas.	2	0	0	
			Sodium Iodide	---	I-2	Not regulated as hazardous.	0	0	0	
			Sodium Lactate	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Sodium Metabisulfite	2	I-2	Toxic by inhalation. Severe respiratory allergen. Releases poisonous sulfur dioxide gas when wet or acidified.	3	0	1	
			Sodium Nitrate	1	I-3	Oxidizer.	1	0	0	OX
			Sodium Nitrite	1	I-3	Oxidizer. Toxic by ingestion.	1	0	0	OX
			Sodium Nitroferrocyanide	2	I-7	Inhalation & ingestion toxic. Reacts with acids to form cyanide gas.	3	0	0	

Attachment 4
Chemical Inventory

NUMBER OF CONTAINERS	CONTAINER SIZE	AMOUNT FILLED AS A PERCENTAGE	CHEMICAL NAME	RISK	STORAGE CATEGORY	HAZARDS	HEALTH	FLAMMABILITY	REACTIVITY	SPECIAL HAZARD
			Sodium Oxalate	2	I-2	Poison. Corrosive.	4	0	0	W
			Sodium Perborate	2	I-8	Oxidizer. Toxic by ingestion.	1	0	0	OX
			Sodium Perchlorate	3	I-6	Powerful oxidizer. Reactivity hazard. Severe irritant.	2	0	2	OX
			Sodium Peroxide	3	I-6	Water reactive. Strong oxidizer.	3	0	1	OX
			Sodium Phosphate	---	I-2	Not regulated as hazardous.	0	0	0	
			Sodium Pyrophosphate	---		Not regulated as hazardous.	1	0	0	
			Sodium Silicate	---	I-2	Not regulated as hazardous.	0	0	0	
			Sodium Sulfate	---	I-2	Not regulated as hazardous.	0	0	0	
			Sodium Sulfide	2	I-5	Poison. Reacts with acids to form poisonous hydrogen sulfide gas.	3	1	1	
			Sodium Sulfite	1	I-2	Toxic by ingestion.	2	0	1	
			Sodium Tartrate	---	I-2	Not regulated as hazardous.	0	0	0	
			Sodium Tetraborate Decahydrate	1		Irritant.	1	0	0	
			Sodium Thiocyanate	1	I-7	Toxic by ingestion. Reacts with acids to form poisonous cyanide gas.	1	0	1	
			Sodium Thiosulfate	---	I-2	Not regulated as hazardous.	0	0	0	
			Sodium Tripolyphosphate, 90%	1		Respiratory irritation.	2	0	0	
			Sodium, metal lump	2	I-1	Water reactive. Ignites spontaneously in dry hot air. Corrosive.	3	3	2	W
			Sodium, metal, small chips	1	I-1	Water reactive. Corrosive.	3	3	2	W
			Stannic Chloride	2	I-2	Corrosive. Can produce hydrochloric acid fumes. Toxic by inhalation.	3	0	1	
			Stannous Chloride	1	I-2	Corrosive. Toxic. Skin irritant.	3	0	1	
			Starch	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Stearic Acid	---	O-1	Not regulated as hazardous.	0	0	0	
			Strontium	3	I-1	Flammable. Store under naphtha. Water reactive.	2	2	2	W

Attachment 4
Chemical Inventory

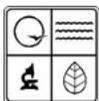
NUMBER OF CONTAINERS	CONTAINER SIZE	AMOUNT FILLED AS A PERCENTAGE	CHEMICAL NAME	RISK	STORAGE CATEGORY	HAZARDS	HEALTH	FLAMMABILITY	REACTIVITY	SPECIAL HAZARD
			Strontium Chloride	---	I-2	Not regulated as hazardous.	0	0	0	
			Strontium Hydroxide Solution	2	I-4 Base Cabinet	Corrosive.	2	0	1	
			Strontium Nitrate	1	I-3	Oxidizer.	1	0	0	OX
			Strychnine	2	O-2	Poison.	3	0	0	
			Styrene, monomer	2	O-3 Flam Cabinet	Flammable. Suspect carcinogen.	2	3	0	
			Sucrose	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Sudan Dyes	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Sulfamic Acid	1	I-9 Acid Cabinet	Corrosive.	1	0	0	
			Sulfur	1	I-10	Combustible. Releases poisonous sulfur dioxide gas when wet or acidified.	1	1	0	
			Sulfur Dioxide, gas cylinder	3	Poison Gas	Poison gas at high levels. Corrosive irritant to eyes & skin.	3	0	0	
			Sulfuric Acid	1	I-9 Acid Cabinet	Corrosive. Oxidizer.	3	0	2	W
			Talc	---	I-Misc	Not regulated as hazardous.	0	0	0	
			Tannic Acid	1	O-1	Toxic by ingestion.	1	1	0	
			Tartaric Acid	1	O-1	Irritant.	0	1	0	
			Testosterone	3	O-2	Controlled substance. Steroid. Theft risk.	0	0	0	
			Testosterone Propionate	3	O-2	Controlled substance. Steroid. Theft risk.	0	0	0	
			Tetrahydrofuran	3	O-4 Flam Cabinet	Flammable. Peroxide former. Explosion risk.	2	3	1	
			Thallium	3	I-1	Extremely poisonous.	2	0	0	
			Thermite	2	I-1 Flam Cabinet	Flammable solid.	0	2	0	
			Thermite Igniting Mixture	2	I-1 Flam Cabinet	Flammable solid.	0	1	0	
			Thimerosal (merthiolate, mercurochrome)	2	O-2	Poison. Organic mercury compound.	1	0	0	
			Thioacetamide	3	O-2 Flam Cabinet	Toxic. Carcinogen. Combustible.	3	1	1	



Attachment 4

Chemical Inventory

NUMBER OF CONTAINERS	CONTAINER SIZE	AMOUNT FILLED AS A PERCENTAGE	CHEMICAL NAME	RISK	STORAGE CATEGORY	HAZARDS	HEALTH	FLAMMABILITY	REACTIVITY	SPECIAL HAZARD
			Thionyl Chloride	3	I-6 Acid Cabinet	Corrosive. Violent reaction w/ water forms acid gas.	4	0	2	W
			Thiourea	3	O-2	Carcinogen. Poison.	1	0	0	
			Thorium Nitrate	2	I-3 Radioactive	Radioactive. Toxic. Oxidizer.	1	0	0	RAD, OX
			Thymol Crystals	2		Corrosive.	3	1	0	
			Thymol Dyes	---	O-Misc	Not regulated as hazardous.	0	0	0	
			Tin, metal lump	---	I-1	Not regulated as hazardous.	0	0	0	
			Tin, powder	1	I-1	Flammable dust.	0	1	0	
			Titanium Tetrachloride	3	I-2	Toxic inhalation hazard. Highly corrosive.	3	0	2	W
			Titanium Trichloride	3	I-2	Corrosive. Reacts with water & heat to produce corrosive, toxic fumes.	3	0	1	
			Toluene	2	O-3 Flam Cabinet	Flammable. Toxic.	2	3	0	
			Trichloroacetic Acid	2	O-1 Organic Acid	Corrosive. Toxic fumes. Bioaccumulative pollutant. Degrades to form chloroform.	3	0	0	
			Trichloroethane	3	O-4	Toxic. Ozone depleting chemical. Bioaccumulative pollutant.	2	1	1	
			Trichloroethylene	3	O-4	Toxic via skin, inhalation. Ozone depleter. Bioaccumulative pollutant. Carcinogen.	2	1	0	
			Triethyl Phosphate	2	O-5	Pesticide. Moderate cholinesterase inhibitor.	0	1	1	
			Triethylamine	3	O-2 Flam Cabinet	Flammable. Toxic. Irritant.	3	3	0	
			Trinitrobenzene	3	O-3 Explosive	Explosive.	2	4	4	
			Trinitrotoluene (TNT)	3	O-3 Explosive	Explosive.	2	4	4	
			Turpentine	1	O-3 Flam Cabinet	Flammable.	1	3	0	
			Uranium	2	I-1 Radioactive	Radioactive. Toxic by ingestion.	1	4	3	RAD
			Uranyl Acetate	2	I-2 Radioactive	Radioactive. Toxic by ingestion.	1	0	0	RAD
			Uranyl Nitrate	3	I-3 Radioactive	Radioactive. Toxic by ingestion. Oxidizer. Corrosive to skin.	1	0	0	RAD, OX
			Urea	---	O-2	Not regulated as hazardous.	0	0	0	



Attachment 4
Chemical Inventory

NUMBER OF CONTAINERS	CONTAINER SIZE	AMOUNT FILLED AS A PERCENTAGE	CHEMICAL NAME	RISK	STORAGE CATEGORY	HAZARDS	HEALTH	FLAMMABILITY	REACTIVITY	SPECIAL HAZARD
			Vanadium Pentoxide	3	I-4	Poison via inhalation & ingestion.	3	0	1	
			Vanillin	---		Not regulated as hazardous.	1	1	0	
			Wood's Metal	2	I-1	Poison. Contains cadmium & lead.	0	0	0	
			Wright's Staining Solution	1	O-9 Flam Cabinet	Mixed with methanol. Flammable. Toxic by ingestion.	1	0	0	
			Xylene	2	O-3 Flam Cabinet	Flammable. Toxic.	2	3	0	
			Zinc Chloride	1	I-2	Corrosive to skin. Toxic by ingestion.	1	0	0	
			Zinc Oxide	1	I-4	Moderately toxic by ingestion and inhalation.	2	1	0	
			Zinc Nitrate	1	I-3	Oxidizer. Toxic by ingestion.	1	0	0	OX
			Zinc Sulfate	1	I-2	Slightly toxic by ingestion.	1	0	1	
			Zinc Sulfide	1	I-5	Reacts with acids to form poisonous hydrogen sulfide gas.	2	0	1	
			Zinc, metal lump	---	I-1	Not regulated as hazardous.	0	0	0	
			Zinc, powder	1	I-1	Flammable solid. If gets damp, can generate heat & pressurize container.	0	1	1	
			Zirconium Nitrate	1	I-3	Oxidizer.	1	0	0	OX

RISK LEVELS:

3: Highest Risk Chemicals - Not Recommended for Use in Schools. Pose Very Serious Risks to Health and Environment.

2: High Risk Chemicals - Use with extreme care. Purchase in smallest available amounts. If possible: Buy prediluted, limit storage to <250 g or 500 ml, use as demos.

1: Other Chemicals of Concern - Stock smallest practical amount. Limit student use unless low concentration.

HEALTH HAZARDS RATING:

0: Materials that offer no hazard beyond that of ordinary combustible materials.

1: Materials that, under emergency conditions, can cause significant irritation.



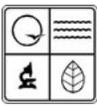
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Chemical Inventory

NUMBER OF CONTAINERS	CONTAINER SIZE	AMOUNT FILLED AS A PERCENTAGE	CHEMICAL NAME	RISK	STORAGE CATEGORY	HAZARDS	HEALTH	FLAMMABILITY	REACTIVITY	SPECIAL HAZARD
2: Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.										
3: Materials that, under emergency conditions, can cause serious or permanent injury.										
4: Materials that, under emergency conditions, can be lethal.										



Attachment 4
Chemical Inventory

NUMBER OF CONTAINERS	CONTAINER SIZE	AMOUNT FILLED AS A PERCENTAGE	CHEMICAL NAME	RISK	STORAGE CATEGORY	HAZARDS	HEALTH	FLAMMABILITY	REACTIVITY	SPECIAL HAZARD
FLAMMABILITY HAZARDS RATING:										
0: Materials are not ignitable.										
1: Materials that require considerable preheating before ignition and combustion can occur.										
2: Materials that, under high ambient temperatures or under moderate heating could ignite or release hazardous vapors.										
3: Materials can be readily ignited and produce hazardous vapors under almost all ambient temperatures.										
4: Materials that rapidly or completely vaporize and disperse at normal ambient temperatures and will burn readily.										
REACTIVITY RATING:										
0: Materials are normally stable even under fire conditions.										
1: Materials are normally stable but can become unstable at elevated temperatures and pressures.										
2: Materials readily undergo violent chemical change at elevated temperatures and pressures.										
3: Materials are capable of detonation but require an initiating source or heating under confinement first.										
4: Materials are readily capable of detonation or explosive decomposition at normal temperatures and pressures.										
SPECIAL HAZARDS RATING:										
W: Materials that react violently or explosively with water (i.e., water reactivity rating 2 or 3).										
OX: Materials possess oxidizing properties (promote ignition and rate of burning of organic materials)										
RAD: Materials that are radioactive.										
*P-listed compounds are defined as acute toxins. If the sum of P-listed compounds disposed in any month exceeds 1.0 kilograms, then the school becomes a fully regulated, large-quantity generator of hazardous waste										



Missouri
Department of
Natural Resources

ATTACHMENT 4
UNKNOWN CHEMICAL INVENTORY LISTING

