

long
beach
unified
school
district



CURRICULUM, INSTRUCTION, & PROFESSIONAL DEVELOPMENT

Office of the Science Curriculum Leader
Teacher Resource Center, Room 7,
(562) 997-8000 Ext. 2963 FAX: (562) 426-8448

APPROVED CHEMICALS LIST

- Revised October 2010 -

The chemicals listed on this approved list are not to be disposed of by dumping down the drain or sewer. Chemicals to be discarded must be placed in the sealed containers provided by the district's Environmental Health and Safety Office (extension 7500) with the identification of these specific discarded chemicals logged in on the sheets provided with each container. Schedule pick up of waste chemicals by submitting a Work Order request at <http://tma.lbusd.k12.ca.us:82/>. Take great care to avoid mixing identified incompatibility groups.

MAXIMUM ORDER PER YEAR: Wherever indicated on the Approved Chemical List, please be advised to not exceed this recommended amount in storage at any given time

Publication authorized:
Christine Dominguez, Assistant Superintendent
Curriculum, Instruction, and Professional Development



Shelf Life Descriptions (following Flinn guidelines, which come from detailed literature and reference book research. However, since conditions may vary from school to school, they are meant to be only estimates.)

Indefinite: A term used frequently to communicate the fact that the substance has no fixed or definable life expectancy.

Excellent: The substance should have a long, useful life under varied storage conditions.

Good: If stored under reasonable conditions of temperature and humidity, the substance should have a long, useful life.

Fair: If stored under reasonable conditions, the product's useful life may be three years or less.

Poor: Substance does not store well under reasonable conditions.

Chemical Grades (adapted from Wards Chemicals):

ACS Reagent Grade... Highest quality chemicals with purity certified by the ACS, suitable for the most exacting analytical work.

Reagent Grade High quality chemicals with purity often equivalent to ACS Reagent Grade, but has not been tested for ACS certification, suitable for general analytical work.

Laboratory Grade..... Quality chemicals at economical prices, suitable for most laboratory work and demonstrations.

Material Safety Data Sheets (MSDS) Resources:

All chemicals purchased are shipped with an MSDS attached to the container. The most current MSDSs must be kept in an easily accessible location for access during a laboratory emergency. Along with this, a teacher might consider keeping a class computer open to one of the on-line MSDS resources during experiments to have rapid access to the latest safety and first aid information.

Check the following web sites and bookmark one (or more) that you find most useful:

Oxford: http://physchem.ox.ac.uk/MSDS/#MSDS	Environment, Health and Safety Online: http://www.ehso.com/msds.php#A
Flinn: http://www.flinnsci.com/search_MSDS.asp	VWR: https://www.vwrsp.com/search/index.cgi?tmpl=msds

Poison Control Emergency Contacts:

National Capital Poison Center: 1 (800) 222-1222

<http://www.poison.org/actFast/>

California Poison Action Line: 1 (800) 222-1222

<http://www.calpoison.org>

Chemicals Not Permitted

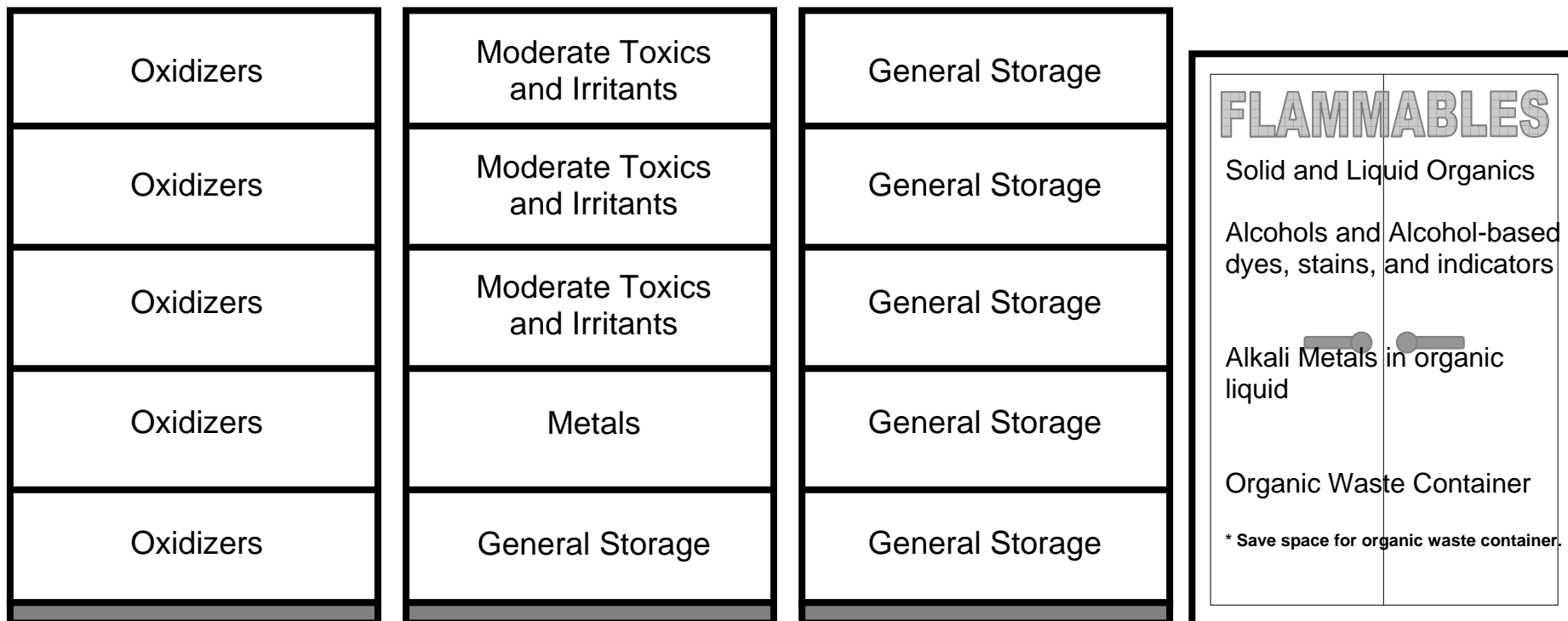
in California School Science Laboratories

Source: Science Safety Handbook for California Public Schools, 1999 Edition

2-acetylaminofluorine	3,3-dichlorobenzidene (and salts)	mercury metal
4-aminodiphenyl	diisopropyl ether (more than 1 year old)	mercury compounds
acrylamide	dimethyl amine	methylchloromethyl ether
aniline	4-dimethylaminoazobenzene	4,4-methylene bis (2-chloroaniline)
antimony	ethidium bromide	methylene chloride
arsenic compound (any)	ethyl ether / diethyl ether (more than 1 year old)	alpha-naphthylamine
arsenic powder	ethylene dichloride	beta-naphthylamine
arsenic trioxide	ethylene oxide	nickel compounds
asbestos	ethyleneimine	nickel powder
benzene	formaldehyde	4-nitrobiphenyl
benzidine (and salts)	hydrazine (anhydrous)	nicotine
benzoyl peroxide	hydrofluoric acid	nitrogen triiodide
beryllium	hydrogen peroxide (35%)	phenol (carbolic acid)
beryllium compounds	lead (powder)	phosphorus (red)
bromine	lead acetate	phosphorus (yellow/white)
cadmium powder	lead arsenate	picric acid
cadmium salts	lead carbonate	potassium chlorate
calcium carbide	lead chloride	potassium metal
carbon disulfide	lead nitrate	Beta-propiolactone
carbon tetrachloride	lead oxide	sodium arsenate
chloroform	lead peroxide (dioxide)	sodium arsenite
chromium (VI) oxide	lead sulfate	sodium azide
all hexavalent chromium compounds	lead sulfide	toluene
cobalt	mercurous / mercuric nitrate	vinyl chloride
p-dichlorobenzene		

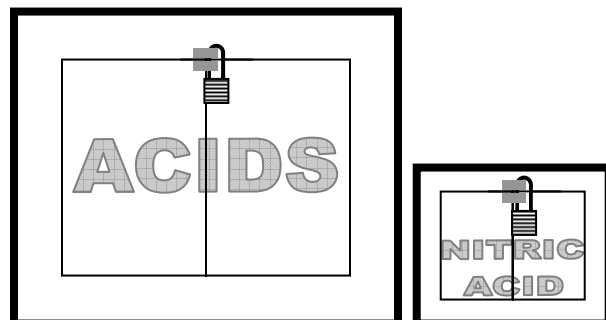
Suggested Shelf Storage Pattern:

by general hazard class

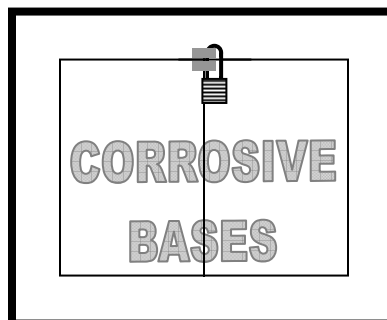


Store oxidizers away from flammables.

Flammables must be kept in a cabinet specifically designed for their storage. Appropriate automatic and manual fire suppression should be readily available.

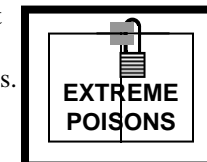


Store acids in locked cabinet with non-metallic hinges and plastic bottom liner with raised sides to prevent spill leakage. Store nitric acid separately from other acids.



Store corrosive bases in a locked cabinet designed for them. Have this cabinet in a separate area from acids.

Keep highly poisonous substances stored in a locked cabinet away from acids and corrosive bases.



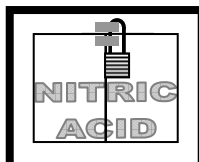
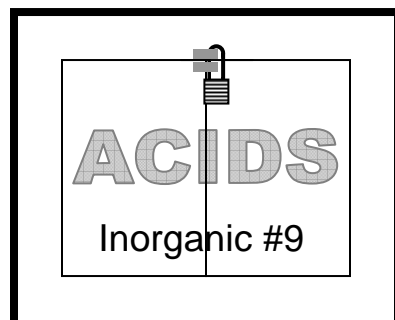
Suggested Shelf Storage Pattern:

by FLINN hazard class

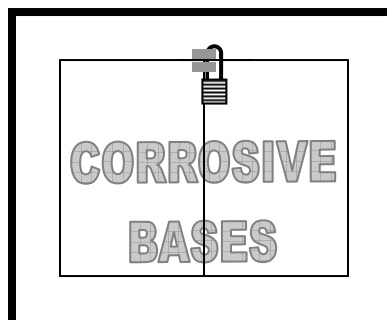
Inorganic #10 S and P ₂ O ₅	Inorganic #7 arsenates, cyanides, cyanates	Organic #8 phenols, cresols	FLAMMABLES Organic #2 alcohols, glycols, sugars, amines amides, imines, imides Organic #3 hydrocarbons, oils, esters, aldehydes Organic #4 ethers, ketones, ketenes, halogenated hydrocarbons, ethylene oxide Organic #9 alcohol-based dyes, stains, and indicators * Save space for organic waste container.
Inorganic #2 halides, sulfates, sulfites, thiosulfates phosphates, halogens, acetates	Inorganic #5 sulfides, selenides, phosphides, carbides, nitrides	Organic #6 peroxides, azides, hydroperoxides	
Inorganic #3 amides, nitrates (except NH ₄ NO ₃ !) nitrites, azides	Inorganic #8 borates, chromates, manganates, permanganates	Organic #1 acids, amino acids, anhydrides peracids	
Inorganic #1 metals and hydrides	Inorganic #6 chlorates, bromates iodates, chlorites, hypochlorites, perchlorates, perchloric acid, peroxides	Organic #5 epoxy compounds, isocyanates	
Inorganic #4 hydroxides, oxides,	Miscellaneous	Organic #7 sulfides, polysulfides, etc.	

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Flammables must be kept in a cabinet specifically designed for their storage. Appropriate automatic and manual fire suppression should be readily available.



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Store corrosive bases in a locked cabinet designed for them. Have this cabinet in a separate area from acids.

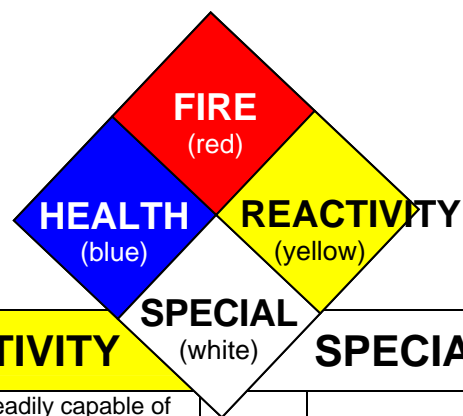




Keep highly poisonous substances stored in a locked cabinet away from acids and corrosive bases.

NFPA (National Fire Protection Association)

Hazard Code System:

This system rates chemical safety “under fire conditions” and therefore does not necessarily represent hazard under normal laboratory use conditions.



HEALTH		FIRE		REACTIVITY		SPECIAL	
4	Very short exposure to material can cause death or major residual injury even if prompt medical treatment is given.	4	Material will rapidly or completely vaporize at atmospheric pressure and normal ambient temperature, or will burn readily when dispersed in air.	4	Material is readily capable of detonation or of explosive decomposition or instability at normal temperatures and pressures.	OX	Oxidizing Material
3	Short exposure to material can cause serious temporary or residual injury even if prompt medical treatment is given.	3	A liquid or solid that can be ignited under almost all ambient temperature conditions.	3	Material is capable of detonation or explosive reaction but requires a strong initiating source; or which must be heated under confinement before initiation; or may react explosively with water.	W	Material is hazardous when in contact with moisture or water.
2	Intense or continued exposure to material can cause temporary incapacitation or possibly residual injury unless prompt medical treatment is given.	2	Material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.	2	Material is normally unstable and readily undergoes violent chemical change but does not detonate. Also may react violently with water or may form potentially explosive mixtures with water.		Radioactive material
1	Exposure to material will cause irritation but only minor residual injury even if no treatment is given.	1	Material that must be preheated before ignition can occur.	1	Material is normally stable but can become unstable at elevated temperatures and pressures or may react with water with some release of energy but not violently.		Biohazardous material
0	Exposure to materials under fire conditions will offer no hazard beyond that of ordinary combustible material.	0	Material that will not burn.	0	Material is normally stable even under fire exposure conditions, and is not reactive with water.		


LBUSD Approved Chemicals List, 2010

CHEMICAL NAME	ALTERNATE NAME	LOWEST GRADE LEVEL	STORAGE and PURCHASE RECOMMENDATION	MAX ORDER PER YR	MAX storage AMT	CHEM HAZARD CLASS	HEALTH	FIRE	REACTIVITY	SPECIAL	STORAGE LOCATION
Abscisic Acid	Pentadienoic Acid	HS	Fair shelf life. Light sensitive. Store in refrigerator reserved for chemicals / specimen.	500 g		Irritant	1	0	1		GENERAL
Acetic Acid Glacial	Acetic Acid	HS	PVC coated bottle Indefinite life, if stored properly			Corrosive-acid	3	2	0		ACID
Acetic Anhydride		C	Good shelf life			Combustable	3	2	1	W	FLAMMABLE
Aceto-Carmine		HS	Indefinite shelf life			Corrosive	2	0	0		OXIDIZER
Acetone	Nail polish remover	C	Good shelf life	4 L		Flammable	1	3	0		FLAMMABLE
Aceto-orcein, 2% solution		MS	Good shelf life			Stain	2	1	2		FLAMMABLE
Adipic Acid*		C	Demonstration only Fair to poor shelf life	500 g		Combustable	-	1	0		FLAMMABLE
Adrenalin Chloride		HS	Fair to poor shelf life			Poison	3	1	0		MOD. TOXIC
Agar, Nutrient	Agar-Agar	E	Premeasured pkgs Must be kept dry			Misc	0	1	0		GENERAL
Albumen, Egg		MS	Fair to poor shelf life Altered by heat and moisture			Non-regulated	-	-	-		GENERAL
Alizarin Yellow R	Alizarin Yellow (Indicator)	MS	Indefinite shelf life			Indicator	2	1	0		FLAMMABLE
Aluminum Ammonium Sulfate	Ammonium Alum	MS	Indefinite shelf life			Non-regulated	2	0	0		GENERAL
Aluminum Chloride (Anhydrous)		C	1 year supply only. Store cool and dry.			Corrosive: Reacts violently with water Constantly evolves HCl	3	0	2	W	OXIDIZER
Aluminum Chloride (crystal, hexahydrate)		HS	Poor shelf life Absorbs water and becomes liquid			Slightly toxic by ingestion Irritant	3	0	0		GENERAL
Aluminum Metal	Aluminum	E	Buy powdered only in smallest quantity for HS Chem. Indefinite shelf life	250 g		Flammable-solid	0	3	1		METAL
Aluminum Nitrate		C	Small quantity Indefinite shelf life	500 g		Oxidizer-solid	2	0	0	OX	OXIDIZER
Aluminum Oxide	Alumina	MS	Indefinite shelf life			Irritant	1	0	0		GENERAL
Aluminum Potassium Sulfate	Alum, crystal	E	Indefinite shelf life			Non-regulated	2	0	1		GENERAL
Aluminum Sodium Sulfate		MS	Indefinite shelf life			Non-regulated	2	0	0		GENERAL
Aluminum Sulfate		HS	Indefinite shelf life			Irritant	2	0	0		GENERAL
Ammonia (10% or weaker solution)	Household Ammonia	MS	Stock catalog Indefinite shelf life			Corrosive-base	2	1	0		CORROSIVE BASE
Ammonium Acetate		C	Crystal has poor shelf life - absorbs water and becomes liquid			Combustable	1	1	0		FLAMMABLE
Ammonium Bromide		C	Fair to poor shelf life Hygroscopic			Moderately toxic by ingestion & inhalation.	2	0	0		MOD. TOXIC

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CHEMICAL NAME	ALTERNATE NAME	LOWEST GRADE LEVEL	STORAGE and PURCHASE RECOMMENDATION	MAX ORDER PER YR	MAX storage AMT	CHEM HAZARD CLASS	HEALTH	FIRE	REACTIVITY	SPECIAL	STORAGE LOCATION
Ammonium Carbonate		HS	Indefinite shelf life			Irritant	1	0	0		GENERAL
Ammonium Chloride		HS	Hygroscopic: seal carefully	5 kg		Irritant	2	0	0		GENERAL
Ammonium Citrate		MS	Indefinite shelf life			Non-regulated	1	1	0		GENERAL
Ammonium Hydroxide	Really strong ammonia!	C	PVC coated bottle Indefinite shelf life, if stored properly			Corrosive-base	3	0	0		CORROSIVE BASE
Ammonium Iodide		C	Fair to poor shelf life Hygroscopic			Moderately toxic Irritant	1	0	0		MOD. TOXIC
Ammonium Metavanadate		C	Indefinite shelf life			Highly toxic. Irritant. Liberates toxic ammonia gas if heated	4	0	0		POISON
Ammonium Molybdate		C	Small quantity Indefinite shelf life	500 g		Irritant	1	0	0		GENERAL
Ammonium Nitrate		C	Small quantity Good shelf life, if stored properly	500 g		Oxidizer-solid Store away from all other substances.	0	0	3	OX	OXIDIZER
Ammonium Oxalate		C	Indefinite shelf life			Moderately toxic Irritant	3	1	0		MOD. TOXIC
Ammonium Persulfate	Ammonium Peroxydisulfate	C	Demonstration only. Store no more than 250 g Indefinite shelf life	250 g		Oxidizer-solid	2	0	1	OX	OXIDIZER
Ammonium Phosphate, Monobasic	Ammonium Dihydrogen Phosphate	MS	Indefinite shelf life			Non-regulated	1	0	0		GENERAL
Ammonium Sulfate		HS	Indefinite shelf life			Slightly toxic	3	0	0		GENERAL
Ammonium Thiocyanate		C	Poor shelf life Absorbs water and becomes liquid			Poison	2	0	0		POISON
Amyl Acetate		C	Dedicated cabinet Good shelf life			Flammable-liquid	1	3	0		FLAMMABLE
Amyl Alcohol	n-Amyl Alcohol	MS	Good shelf life, if stored properly			Flammable	1	3	0		FLAMMABLE
Antibiotic Disks		HS				Misc					GENERAL
Antimony Potassium Tartrate	Potassium Antimonyl Tartrate	HS	Indefinite shelf life			Poison	2	0	0		POISON
Argon (gas cylinder)		MS	Dedicated cabinet for pressurized bottles.			Inert	0	0	0		FIRM WALL ATTACHMENT
Balsam		E	Dedicated flammable cabinet Good shelf life			Moderately flammable	1	1	0		FLAMMABLE
Barium Acetate		C	Indefinite shelf life			Poison	1	1	0		MOD. TOXIC
Barium Carbonate		C	Indefinite shelf life			Poison	2	0	0		MOD. TOXIC
Barium Chloride		C	Small quantity - store no more than 500g Indefinite shelf life	500 g		Poison	2	0	0		MOD. TOXIC

LBUSD Approved Chemicals List, 2010

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Barium Hydroxide		C	Store no more than 500g Poor shelf life, unless kept tightly closed	500 g		Corrosive-base	3	0	0		CORROSIVE BASE
Barium Metal		C	Very small quantity	100 g		Flammable solid in water	2	3	2		FLAMMABLE
Barium Nitrate		C	Small quantity - store no more than 500g Indefinite shelf life	500 g		Oxidizer-solid Poison	1	0	0	OX	OXIDIZER
Barium Peroxide	Barium Dioxide Barium Binoxide	C	Poor shelf life, unless kept cool and dry			Oxidizer / Poison / Corrosive	1	0	0	OX	OXIDIZER
Barium Sulfate		MS	Indefinite shelf life			Non-regulated	1	0	0		GENERAL
Benedict's Solution		HS	Indefinite shelf life			Poison Irritant	1	0	0		MOD. TOXIC
Benzoic Acid		HS	Indefinite shelf life			Poison Irritant	2	1	-		POISON
Beta & Gamma Radiation (Low Grade)		C	Store in metal case that blocks radiation.			Misc					METAL CASE
Bial's Reagent	Test for 5-carbon sugars. Contains 6g resorcinol, 200 mL 95% EtOH, and 40 drops 10%	HS	Poor shelf life - must be made up fresh			Flammable / Slightly Toxic					FLAMMABLE
Bismark Brown		HS	Indefinite shelf life			Non-regulated	1	1	0		GENERAL
Bismuth Chloride	Bismuth Trichloride	C	Small quantity Poor shelf life - absorbs water and becomes liquid	25 g		As dust-corrosive	3	0	1		OXIDIZER
Bismuth Metal		C	Dust is flammable Indefinite shelf life	100 g		Flammable Solid	0	3	0		FLAMMABLE
Bismuth Nitrate		C	Fair to poor shelf life - hygroscopic			Oxidizer-solid	1	0	0	OX	OXIDIZER
Biuret Solution	Copper Sulfate + 40% Sodium Hydroxide Solution	C	Safe container Good shelf life			Corrosive-base	3	0	1		CORROSIVE BASE
Bleaching Powder		MS				Poison / Corrosive	2	1	1		CORROSIVE BASE
Boiling Stones		MS	Indefinite shelf life			Misc	0	0	0		GENERAL
Boric Acid		HS	Indefinite shelf life	500 g		Slightly toxic Irritant	2	0	0		GENERAL
Bromine Water		C	1 year supply Corrodes bottle tops and metals			Oxidizer-liquid	3	0	0	OX	OXIDIZER
Bromocresol Green		HS	Indefinite shelf life			Indicator	3	1	0		GENERAL
Bromophenol Blue		HS	Indefinite shelf life			Indicator	1	1	0		GENERAL
Bromthymol Blue		HS	Indefinite shelf life			Indicator	1	1	0		GENERAL
Buffer Solution: pH 1.0		C	Good shelf life. Concentrated forms have longer shelf life			Misc	2	1	0		ACID
Buffer Solution: pH 10.0		HS	Poor shelf life. Concentrated forms have longer shelf life			Misc	2	1	0		CORROSIVE BASE

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Buffer Solution: pH 4.0		HS	Good shelf life. Concentrated forms have longer shelf life			Misc	2	2	0		ACID
Buffer Solution: pH 7.0		HS	Fair shelf life. Concentrated forms have longer shelf life			Misc	2	1	0		GENERAL
Butanol	n-Butyl Alcohol	C	1 year supply Fair shelf life - substance oxidizes			Flammable-liquid	1	2	0		FLAMMABLE
tert-Butyl Alcohol	2-Methyl-2-Propanol	HS	Fair shelf life			Flammable-liquid Slightly toxic Irritant	1	3	0		FLAMMABLE
Butyl Phthalate	Dibutyl Phthalate	C	Fair to poor shelf life			Combustable / Possible Teratogen Eye Irritant	2	1	0		FLAMMABLE
Butyric Acid		C	Indefinite shelf life, if stored properly	500 mL		Flammable liquid Irritant	3	2	0		FLAMMABLE
Calcium Acetate		HS	Fair to poor shelf life - hygroscopic			Non-regulated	2	0	0		GENERAL
Calcium Carbonate	Limestone, Marble Chips, Calcite	E	Excellent shelf life			Non-regulated	1	0	0		GENERAL
Calcium Chloride		HS	Fair to poor shelf life Absorbs water and becomes liquid	4 kg		Irritant	2	0	2		GENERAL
Calcium Fluoride	Fluorite; Fluorspar	HS	Indefinite shelf life			Slightly toxic Irritant	3	0	0		GENERAL
Calcium Hydroxide	Slaked Lime	HS	Poor shelf life Absorbs carbon dioxide	1.5 kg		Corrosive-base	3	0	0		CORROSIVE BASE
Calcium Hydroxide Solution (Saturated)	Limewater	MS	Poor shelf life Absorbs carbon dioxide from air	4 L		Corrosive-base	3	0	0		CORROSIVE BASE
Calcium Hypochlorite	Calcium Oxychloride	HS	Poor shelf life Decomposes in moist air	500 g		Oxidizer / Poison	3	0	1	OX	OXIDIZER
Calcium metal-turnings	Calcium	HS	Good shelf life, if well sealed	500 g		Flammable solid	3	1	2	W	FLAMMABLE
Calcium Nitrate		C	1 year supply only Absorbs water and becomes liquid	500 grams		Oxidizer-solid	2	0	1	OX	OXIDIZER
Calcium Oxide		C	Poor shelf life Recommend 1-2 year supply	5 kg		Corrosive-base / Water Reactive	3	0	1		CORROSIVE BASE
Calcium Phosphate, Dibasic	Calcium Dihydrogen Phosphate	MS	Fair to poor shelf life Absorbs water and becomes liquid			Non-regulated	2	0	0		GENERAL
Calcium Sulfate	Plaster of Paris (hemihydrate) Drierite (anhydrous)	E	Fair to poor shelf life Absorbs water and becomes liquid			Non-regulated	1	0	0		GENERAL
Calcium Sulfate	(dihydrate)	MS	Indefinite shelf life			Non-regulated	1	0	0		GENERAL
Camphor	d-Camphor	HS	Indefinite shelf life			Flammable & explosive vapors produced if heated	0	2	0		FLAMMABLE
Carbon Dioxide (gas cylinder)		HS	Indefinite shelf life Dedicated bottled gas cabinet				1	0	0		FIRM WALL ATTACHMENT
Carmine	Carmine Red	HS	Indefinite shelf life			Stain	-	-	-		GENERAL
Casein	Milk Protein	E	Fair to poor shelf life Deteriorates when damp			Non-regulated	1	1	0		GENERAL

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Cellulose	Beta-amylose	E	Good, if kept dry			Non-regulated	1	1	0		GENERAL
Cerium (IV) Ammonium Nitrate	Ceric Ammonium Sulfate	C	Good shelf life			Oxidizer	1	0	0	OX	OXIDIZER
Chlorophyllin	(Na-K-Cu) Chlorophyll	E	Indefinite shelf life			Non-regulated	-	-	-		GENERAL
Citric Acid		E	Fair shelf life			Non-regulated	3	1	0		GENERAL
Coal	Charcoal	MS	Indefinite shelf life			Flammable solid	2	3	0		FLAMMABLE
Congo Red		MS	Indefinite shelf life			Inert	2	0	0		GENERAL
Copper (I) Chloride	Cuprous Chloride	MS	Fair shelf life Degrades in air and light			Poison Irritant	3	0	0		MOD. TOXIC
Copper (I) Oxide	Cuprous Oxide	HS	Poor shelf life Oxidizes to CuO in moist air			Moderately Toxic	2	0	0		MOD. TOXIC
Copper (II) Acetate	Cupric Acetate	HS	Indefinite shelf life			Poison	2	1	0		MOD. TOXIC
Copper (II) Bromide	Cupric Bromide	HS	Poor shelf life Hygroscopic			Poison	1	0	0		MOD. TOXIC
Copper (II) Carbonate	Cupric Carbonate	HS	Indefinite shelf life			Poison	2	0	0		MOD. TOXIC
Copper (II) Chloride	Cupric Chloride	HS	Tends to absorb moisture from air and become liquid			Poison	3	0	0		MOD. TOXIC
Copper (II) Nitrate	Cupric Nitrate	C	1 year supply Poor shelf life	500 g		Oxidizer	1	0	0	OX	OXIDIZER
Copper (II) Oxide	Cupric Oxide	HS	Indefinite shelf life			Poison	2	0	0		MOD. TOXIC
Copper (II) Sulfate	Cupric Sulfate; Blue vitriol	MS	Fair shelf life - hydrate slowly decomposes in air			Moderately Toxic Irritant	3	0	0		MOD. TOXIC
Copper Metal	Copper Sheet, Bulk Copper	E	Indefinite shelf life Powder is not permitted			Non-regulated	2	3	0		METAL
Cresol Purple	m-Cresol Purple	MS	Indefinite shelf life			Non-regulated	3	2	0		GENERAL
Crystal Violet	Gentian Violet	MS	Indefinite shelf life			Poison	2	0	0		GENERAL
Cyanoacrylate (Liquid Glue)	Super Glue	HS	Indefinite shelf life			Flammable-liquid	2	2	2		FLAMMABLE
Cyclohexane*		C	Carcinogen; demo only	1 L		Flammable-liquid	1	3	0		FLAMMABLE
Dextrin	White, corn powder	E	Good shelf life, if kept dry			Non-regulated	1	0	0		GENERAL
Dextrose	D-Glucose, Anhydrous	E	Good shelf life, if kept dry			Non-regulated	0	1	0		GENERAL
Dihydrogen Sulfide	"Aitch-Tu-Ess" Hydrogen sulfide cartridges	C	Safe containers	1-2 cylinders		Dedicated cabinet. When heated emits poisonous & flammable gas	4	4	0		FLAMMABLE

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Dimethylglyoxime		MS	Indefinite shelf life			Non-regulated	1	1	2		GENERAL
Diphenylamine		HS	Indefinite shelf life			Poison	3	1	0		MOD. TOXIC
Drosophila Medium		MS	Fair shelf life			Non-regulated	0	0	0		GENERAL
Ethanol	Ethyl Alcohol, denatured, anhydrous alcohol	MS	Stock catalog, 70% Excellent shelf life			Flammable-liquid Poison	0	3	0		FLAMMABLE
Ethyl Acetate		C	Good shelf life			Flammable-liquid, Explosive-gas Slightly toxic Irritant	1	3	0		FLAMMABLE
Ethylene Glycol	Ethylene Alcohol	HS	Fair shelf life Hygroscopic			Poison	1	1	0		FLAMMABLE
Ethylenediamine		HS	Dedicated flammable cabinet			Flammable-liquid Poison / Strong Irritant	3	2	0		FLAMMABLE
Ethylenediamine-tetraacetic Acid	EDTA	MS	Indefinite shelf life			Non-regulated	2	1	0		GENERAL
Food Coloring Dye blue #1		E	Indefinite shelf life			Non-regulated	1	1	0		GENERAL
Food Coloring Dye blue #2		E	Indefinite shelf life			Non-regulated	1	1	0		GENERAL
Food Coloring Dye green #3		E	Indefinite shelf life			Non-regulated	1	1	0		GENERAL
Food Coloring Dye red #3		E	Indefinite shelf life			Non-regulated	1	1	0		GENERAL
Food Coloring Dye red #40		E	Indefinite shelf life			Non-regulated	1	1	0		GENERAL
Food Coloring Dye yellow #5		E	Indefinite shelf life			Non-regulated	1	1	0		GENERAL
Food Coloring Dye yellow #6		E	Indefinite shelf life			Non-regulated	1	1	0		GENERAL
Formic Acid		C	1 year supply only	500 mL		Upon aging, decomposes to carbon monoxide and water, thus creating potential explosive danger in tightly sealed bottles	3	2	0		ACID
Fructose	Levulose	E	Indefinite shelf life			Non-regulated	1	1	0		GENERAL
Fuller's Earth	Bentonite, Kaolinite	E	Indefinite shelf life			Non-regulated	1	0	0		GENERAL
Fumaric Acid		MS	Indefinite shelf life				2	1	0		ACID
Galactose		E	Indefinite shelf life			Non-regulated	1	1	0		GENERAL
Gibberellic Acid	Gibberellin A3	HS	Indefinite shelf life			Non-regulated	0	1	0		GENERAL
Glucose	Dextrose	E	Good shelf life, if kept dry			Non-regulated	0	1	0		GENERAL

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Glucose Test Paper	Testape, Clinistix	E	Indefinite shelf life			Misc					GENERAL
Glycerin	Glycerol	MS	Indefinite shelf life			Combustable Do not mix with strong oxidants	1	1	0		FLAMMABLE
Glycogen	Animal Starch	MS	Indefinite shelf life, if kept dry			Non-regulated	2	0	0		GENERAL
Graphite		E	Indefinite shelf life			Flammable solid	1	1	0		FLAMMABLE
Guar Gum		E	Indefinite shelf life			Non-regulated	0	1	0		GENERAL
Hexamethylenediamine*	1,6 - Hexanediamine	C	Demonstration only Indefinite shelf life	500 g		Poison Strong Irritant	3	2	0		FLAMMABLE
Hexane	85% n - hexane Hexanes	C	Indefinite shelf life, if stored properly			Flammable Respiratory Irritant	1	3	0		FLAMMABLE
Hydrochloric Acid		MS	PVC coated bottle, dedicated cabinet Good shelf life			Corrosive-acid	3	0	0		ACID
Hydrogen Peroxide Solution, 30%		C	35% or stronger is not permitted Poor shelf life	4 L		Oxidizer-liquid	3	0	3	OX	OXIDIZER
Hydrogen Peroxide Solution, 6%	"Peroxide"	MS	Poor shelf life	4 L		Oxidizer-liquid	1	1	0	OX	OXIDIZER
Hydroquinone		HS	Poor shelf life Keep protected from air and light			Poison Corrosive to skin	2	1	0		POISON
Indigo Carmine		MS	Indefinite shelf life			Slightly toxic Irritant	1	0	0		MOD. TOXIC
Indoleacetic Acid	Indole-3-acetic acid	HS	Indefinite shelf life			Non-regulated	1	1	0		GENERAL
Indophenol, sodium salt	2,6 Dichloroindophenol DPIP	HS	Poor shelf life - hygroscopic Make solutions fresh.			Irritant	2	1	0		MOD. TOXIC
Iodine	Iodine crystals	C	Fair shelf life Sublimes			Poison	3	0	0		OXIDIZER
Iodine Solution	Tincture	HS	Fair to poor shelf life			Poison	3	0	0		MOD. TOXIC
Iodine Solution	Lugol, Potassium iodide	HS	Fair to poor shelf life			Poison	3	0	0		MOD. TOXIC
Ion Exchange Resin		HS	Excellent shelf life			Non-regulated					GENERAL
Iron (II) Ammonium Sulfate	Ferrous Ammonium Sulfate	HS	Fair to poor shelf life Absorbs water and is affected by light	500 g		Non-regulated	2	0	0		GENERAL
Iron (II) Chloride	Ferrous Chloride	HS	Poor shelf life Absorbs water and oxidizes easily			Slightly toxic Irritant	3	0	0		GENERAL
Iron (II) Sulfate	Ferrous Sulfate	HS	Fair to poor shelf life Hygroscopic			Slightly toxic by ingestion	3	0	0		GENERAL
Iron (II) Sulfide	Ferrous Sulfide	C	Store, use, and dispose of far from acids!			Contact with acids produces toxic and flammable H ₂ S gas	1	0	1		GENERAL

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Iron (III) Ammonium Citrate	Ferric Ammonium Citrate	HS	Poor shelf life Absorbs water and is affected by light.			Non-regulated	1	1	0		GENERAL
Iron (III) Ammonium Sulfate	Ferric Ammonium Sulfate	HS	Fair to poor shelf life Light sensitive			Non-regulated	1	0	0		GENERAL
Iron (III) Chloride Hexahydrate	Ferric Chloride	HS	Small quantity Fair shelf life - hygroscopic	500 g		Poison	3	0	0		MOD. TOXIC
Iron (III) Nitrate	Ferric Nitrate	C	Small quantity Fair shelf life - hygroscopic	500 g		Oxidizer-solid	3	0	0	OX	OXIDIZER
Iron (III) Oxide	Ferric Oxide hematite	MS	Indefinite shelf life			Non-regulated	1	0	0		GENERAL
Iron (III) Sulfate	Ferric Sulfate	HS	Fair to poor shelf life Hygroscopic and light sensitive			Non-regulated	1	0	0		GENERAL
Iron Filings	Iron metal	E	Indefinite shelf life Powder is not permitted			Inert	1	3	0		METAL
Isobutyl Alcohol	2 - Methyl - 1 - Propanol	MS	Indefinite shelf life			Flammable Slightly toxic / Irritant	1	3	0		FLAMMABLE
Isopentyl Alcohol	Isoamyl Alcohol	MS	Poor shelf life May form explosive peroxides over time			Flammable Slightly toxic	1	2	0		FLAMMABLE
Isopropyl Alcohol	Rubbing alcohol	MS	Stock catalog Fair shelf life. May form explosive peroxides.			Flammable Slightly toxic	1	3	0		FLAMMABLE
Kaolin	China Clay	E	Indefinite shelf life			Non-regulated	1	0	0		GENERAL
Kerosene	Fuel Oil No. 1	C	Small quantity Excellent shelf life	500 mL		Combustable	2	2	0		FLAMMABLE
Lactic Acid		MS	Fair shelf life Hygroscopic			Corrosive-acid Irritant	3	1	0		ACID
Lactose	Milk Sugar	E	Indefinite shelf life			Non-regulated	1	1	0		GENERAL
L-Ascorbic Acid	Vitamin C	E	Good, if kept dry			Non-regulated	0	1	0		GENERAL
Latex		E	Fair shelf life			Non-regulated	1	0	0		GENERAL
Lauric Acid	Dodecanoic Acid	C	Indefinite shelf life			Combustable	2	1	0		FLAMMABLE
Lead Metal		HS	Powder is not permitted			Inert. All other lead compounds/solutions to be removed as per state (carcinogens)	1	0	0		METAL
Licorice	Glycyrrhiza Extract	E	Poor shelf life, unless kept very dry			Non-regulated	0	0	0		GENERAL
Lithium Carbonate	Dilithium Salt	HS	Poor shelf life - Hygroscopic 0.1 M soln has indef. shelf life.			Strong base in water / Corrosive to eyes and respiratory tract / Moderately toxic	2	0	0		CORROSIVE BASE
Lithium Chloride		HS	Fair to poor shelf life VERY hygroscopic			Moderately toxic	3	0	0		MOD. TOXIC
Lithium Metal		C	Very small quantity	100 g		Flammable solid in water	3	2	2	W	FLAMMABLE
Lithium Nitrate		C	Indefinite shelf life, if stored properly	500 g		Oxidizer-solid	1	0	0	OX	OXIDIZER

E = elem, MS = middle school, HS = high school,
C = Chemistry ONLY

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Litmus (solution)		E	Indefinite shelf life, if kept tightly closed			Non-regulated	1	0	0		GENERAL
Litmus (solid)		E	Indefinite shelf life, if kept tightly closed			Non-regulated	1	0	0		GENERAL
Litmus Paper		E	Stock catalog			Non-regulated	0	0	0		GENERAL
Luminol	3-Aminophthalhydrazide	MS	Poor shelf life	500 g		Irritant	1	1	0		GENERAL
Lycopodium		HS	Purchase 1 year supply Poor shelf life	500 g		Combustable; Highly flammable powder Possible allergen	1	2	0		GENERAL
Magnesium Acetate		MS	Poor shelf life Hygroscopic			Non-regulated	1	1	0		GENERAL
Magnesium Carbonate Hydrate		MS	Indefinite shelf life			Non-regulated	1	0	0		GENERAL
Magnesium Chloride		HS	Fair to poor shelf life Absorbs water and becomes liquid			Slightly toxic by ingestion	1	0	0		GENERAL
Magnesium Metal		C	Indefinite shelf life, if stored properly	For powder, 25 g		Flammable solid-dangerous when wet Keep sand available as a fire extinguisher	0	1	1	W	FLAMMABLE
Magnesium Nitrate		C	Fair to poor shelf life Absorbs water and becomes liquid			Strong Oxidizer-solid Irritant	1	0	0	OX	OXIDIZER
Magnesium Oxide		HS	Fair to poor shelf life Absorbs CO2 and water from the air			Dust toxic by inhalation Poison	1	0	0		MOD. TOXIC
Magnesium Sulfate	Epsom Salts	MS	Poor shelf life Hygroscopic			Heptahydrate is eye and respiratory irritant	1	0	0		GENERAL
Maleic Acid	Butenedioic Acid	C	Indefinite shelf life			Strong irritant Moderately toxic	3	1	0		MOD. TOXIC
Malonic Acid	Propanedioic Acid	HS	Indefinite shelf life	2 kg		Strong Irritant	3	1	0		ACID
Maltin	Diatase of Malt	MS	Poor shelf life unless kept dry			Non-regulated	0	0	0		GENERAL
Maltose	Malt Sugar	E	Indefinite shelf life			Non-regulated	0	1	0		GENERAL
Manganese (II) Chloride	Manganous Chloride	C	Fair to poor shelf life Absorbs water and becomes liquid			Poison	2	0	0		MOD. TOXIC
Manganese (II) Sulfate	Manganous Sulfate	HS	Poor shelf life Hygroscopic			Irritant	1	0	0		GENERAL
Manganese (IV) Oxide	Manganese Dioxide	C	Indefinite shelf life, if stored properly			Oxidizer-solid Poison	2	0	0	OX	OXIDIZER
Manganese Metal		MS	Indefinite shelf life			Irritant as a dust or fume Dust is flammable	1	3	1		METAL
Mannose		E	Indefinite shelf life			Non-regulated	1	1	0		GENERAL
Methyl Alcohol	Methanol	MS	Good shelf life, if stored safely			Flammable-liquid Poison	1	3	0		FLAMMABLE
Methyl Cellulose		MS	Good shelf life, if kept dry			Combustable	1	1	0		GENERAL

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Methyl Green		MS	Good shelf life			Non-regulated	1	1	0		GENERAL
Methyl Methacrylate		HS	Indefinite shelf life			Flammable-liquid Irritant	2	3	2		FLAMMABLE
Methyl Orange		HS	Indefinite shelf life (soln has fair shelf life)			Highly toxic	2	1	0		POISON
Methyl Red		MS	Indefinite shelf life (soln has fair to poor shelf life)			Non-regulated	1	0	0		GENERAL
Methyl Violet	Basic Violet 1	HS	Indefinite shelf life (soln has fair to poor shelf life) Avoid contact with oxidizers.			Moderately toxic Solution is flammable (ethanol)	2	0	1		FLAMMABLE
Methylene Blue		MS	Indefinite shelf life			Slightly toxic	1	1	2		GENERAL
Mineral oil		E	Indefinite shelf life			Non-regulated	0	1	0		GENERAL
Naptha		MS				Flammable	1	3	0		FLAMMABLE
Napthalene		MS	Volatile solid, must be kept tightly sealed	1 kg		Moderately toxic	2	2	0		GENERAL
Nichrome Wire		MS	Indefinite shelf life			Non-regulated	-	-	-		GENERAL
Nickel Metal		MS	Indefinite shelf life (Powdered form is not permitted.)			Non-regulated	2	0	0		METAL
Nitric Acid		C	PVC coated bottle Isolate from other acids. Cap may degrade			Corrosive-acid / oxidizer	3	0	0	OX	OXIDIZER
Octanol	1-octanol, n-octyl alcohol caprylic alcohol	C	Poor shelf life	1 L		Flammable-liquid / Develops potentially explosive peroxides upon aging	1	2	0		FLAMMABLE
Oleic Acid	Fatty Acid	HS	Darkens when exposed to air; keep tightly closed.			Non-regulated	0	1	0		GENERAL
o-Nitrobenzaldehyde	ortho-nitrobenzaldehyde	C	Indefinite shelf life Avoid contact with strong oxidizers and bases.			Moderately toxic by ingestion Eye irritant. Combustible solid.	2	1	1		FLAMMABLE
Oxalic Acid		HS	Indefinite shelf life			Moderately toxic Irritant	3	1	0		ACID
Oxygen (gas cylinder)	Oxygen gas cylinder	HS	Indefinite shelf life Dedicated bottled gas cylinder cabinet			Fire risk	0	0	0		FIRM WALL ATTACHMEN T
Palmitic Acid	Hexadecanoic Acid	MS	Indefinite shelf life			Non-regulated	1	1	0		GENERAL
Pancreatin powder		MS	Good shelf life, only if kept refrigerated			Non-regulated	2	1	0		GENERAL
Pancreatin solution	"Pancreatic Juice"	MS	Good shelf life, if kept refrigerated			Non-regulated	2	1	0		GENERAL
Pentanol	1 Pentanol, n - Amyl Alcohol Pentyl Alcohol	MS	Good shelf life, if stored properly	1 L		Flammable	1	2	0		FLAMMABLE
Pepsin		MS	Indefinite shelf life			Non-regulated	1	1	0		GENERAL
Peptone		MS	Indefinite shelf life, if kept dry			Non-regulated	0	0	0		GENERAL

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Petroleum Ether	Ligroine	HS	Small quantity Indefinite shelf life	2 L		Flammable	2	3	0		FLAMMABLE
pH Test Paper		E				Misc					GENERAL
Phenol Red		MS	Indefinite shelf life in solid form - good shelf life as solution			Non-regulated	1	1	0		GENERAL
Phenolphthalein		MS	Indefinite shelf life (solid and solution)			Flammable in alcohol solution	1	1	0		FLAMMABLE
Phenyl Salicylate	Salol	HS	Indefinite shelf life			Slightly toxic	1	4	0		MOD. TOXIC
Phenyl Thiocarbamide	Phenyl Thiourea, PTC Taste Test Paper	HS	Small quantity Indefinite shelf life	50 g		Highly toxic	-	-	0		POISON
Phosphoric Acid	Orthophosphoric Acid	C	Good shelf life	1 L		Corrosive-acid	3	0	0		ACID
Phthalic Anhydride		HS	Poor shelf life, moisture sensitive			Irritant	3	1	0		MOD. TOXIC
Plaster of Paris	Calcium Sulfate Hemihydrate	E	Poor shelf life, unless kept very dry			Non-regulated	1	0	0		GENERAL
Platinum Wire		MS	Indefinite shelf life			Inert	1	3	0		GENERAL
Polyvinyl Alcohol		MS	Indefinite shelf life in granular form, poor for solution unless kept cool			Combustable	0	2	0		FLAMMABLE
Potassium Acetate		HS	Poor shelf life Absorbs water and becomes liquid			Combustable	0	1	0		FLAMMABLE
Potassium Bicarbonate	Baking Soda	E	Poor shelf life Hygroscopic			Non-regulated	1	0	0		GENERAL
Potassium Binoxalate	Potassium acid oxalate	HS	Poor shelf life Hygroscopic			Moderately toxic	1	0	0		MOD. TOXIC
Potassium Bisulfate	Potassium hydrogen sulfate	C	Absorbs water and becomes liquid			Severe Irritant Slightly toxic	3	0	0		MOD. TOXIC
Potassium Bitartrate	Cream of Tartar Potassium Hydrogen Tartrate	HS	Indefinite shelf life			Non-regulated	1	1	0		GENERAL
Potassium Bromate		C	Indefinite shelf life	1 kg		Oxidizer - solid Strong irritant / Moderately toxic	1	0	0	OX	OXIDIZER
Potassium Bromide		HS	Good shelf life	4 kg		Poison Irritant	0	0	0		MOD. TOXIC
Potassium Carbonate	Potash	MS	Absorbs water and becomes liquid			Irritant Slightly toxic	3	0	0		MOD. TOXIC
Potassium Chlorate		C	Order minimal amount - one year supply. Indefinite shelf life			Strong oxidizer / Becomes explosive to shock and heat if even slightly contaminated	2	0	0	OX	OXIDIZER
Potassium Chloride		MS	Poor shelf life Hygroscopic			Slightly toxic	1	0	0		MOD. TOXIC
Potassium Citrate		MS	Absorbs water and becomes liquid			Non-regulated	1	0	0		GENERAL
Potassium Ferricyanide	Potassium Hexacyanoferrate (III)	C	Fair shelf life Light sensitive			Poison / Decomposes on strong heating or reaction with acid evolving toxic fumes	1	0	0		MOD. TOXIC

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Potassium Ferrocyanide	Potassium Hexacyanoferrate (II)	C	Fair to poor shelf life Keep tightly capped	500 g		Poison / Decomposes on strong heating or reaction with acid evolving toxic fumes	0	0	0		MOD. TOXIC
Potassium Fluoride		C	Fair to poor shelf life Absorbs water and becomes liquid			Poison Severe irritant	3	0	0		POISON
Potassium Hydrogen Phthalate	Potassium Acid Phthalate	HS	Indefinite shelf life	1 kg		Non-regulated	2	1	0		GENERAL
Potassium Hydroxide	Potash, Lye	C	Fair shelf life Absorbs water and carbon dioxide.	10 kg		Corrosive-base	3	0	1		CORROSIVE BASE
Potassium Iodate		C	Indefinite shelf life			Oxidizer - solid Moderately toxic / Irritant	1	0	0	OX	OXIDIZER
Potassium Iodide		MS	Crystal has poor shelf life - moisture and light sensitive. Solution has indefinite shelf life			Irritant	3	0	0		MOD. TOXIC
Potassium Nitrate	Saltpeter	C	Good shelf life Slightly hygroscopic			Oxidizer - solid Skin irritant	1	0	0	OX	OXIDIZER
Potassium Nitrite		C	Good shelf life Slightly hygroscopic			Highly toxic by ingest. and inhalation Toxic fumes if heated to decomposition Strong oxidizer	3	0	3	OX	OXIDIZER
Potassium Oxalate		HS	Hydrate may lose water - keep tightly capped			Poison	3	0	0		POISON
Potassium Permanganate		C	Indefinite shelf life			Oxidizer Strong irritant	1	0	0	OX	OXIDIZER
Potassium Persulfate		C	Fair to poor shelf life			Oxidizer - solid Skin irritant	1	0	0	OX	OXIDIZER
Potassium Phosphate, Dibasic	Potassium Hydrogen Phosphate	MS	Poor shelf life Hygroscopic			Non-regulated	1	0	0		GENERAL
Potassium Phosphate, Monobasic	Potassium Dihydrogen Phosphate	MS	Poor shelf life Hygroscopic			Non-regulated	1	0	0		GENERAL
Potassium Phosphate, Tribasic	Potassium Phosphate	MS	Poor shelf life Hygroscopic			Non-regulated	3	0	0		GENERAL
Potassium Sodium Tartrate	Rochelle salt	MS	Fair to poor shelf life Hydrate may lose water			Non-regulated	1	0	0		GENERAL
Potassium Sulfate		E	Indefinite shelf life			Non-regulated	0	0	0		GENERAL
Potassium Thiocyanate		C	Absorbs water and becomes liquid	5 kg		Moderately toxic / Emits toxic fumes if strongly heated or combined with concentrated acids	2	0	0		MOD. TOXIC
Propane		HS	In canisters for classroom use			Dedicated cabinet	1	4	0		FLAMMABLE
Propanol	n-Propyl Alcohol 1-Propanol	MS	Indefinite shelf life	1 L		Flammable-liquid	1	3	0		FLAMMABLE
Propionic Acid	Propanoic Acid Mold Inhibitor	C	Indefinite shelf life			Corrosive-acid Flammable	3	2	0		FLAMMABLE
Propylene Glycol	1,2-Propanediol	MS	Hygroscopic - keep tightly capped			Non-regulated	0	1	0		GENERAL
Pyrogallol Acid	Pyrogallol	HS	Indefinite shelf life Crystals turn gray on exposure to light.			Toxic - absorbs through skin Harmful to eyes and lungs / Stains skin	2	1	0		POISON
Quinine Sulfate		HS	Indefinite shelf life Light sensitive			Moderately toxic Irritant	2	1	0		MOD. TOXIC

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Resorcinol		HS	Indefinite shelf life			Toxic - absorbs through skin	-	1	0		POISON
Ringers Solution	Isotonic Solution	MS	Indefinite shelf life			Non-regulated	-	-	-		GENERAL
Safranin O		MS	Indefinite shelf life			Non-regulated	2	1	0		GENERAL
Salicylic Acid		HS	Indefinite shelf life	5 kg		Moderately toxic Irritant	0	1	0		MOD. TOXIC
Sebacoyl Chloride / Hexane Solution		C	Indefinite shelf life Flammables cabinet	100 mL		Flammable	3	1	2		FLAMMABLE
Silicon		HS	Indefinite shelf life			Flammable in powder form Irritant	0	3	0		FLAMMABLE
Silver Acetate		C	Indefinite shelf life, but light sensitive			Poison	1	0	0		POISON
Silver Chloride		C	Indefinite shelf life, but light sensitive			Poison	1	0	0		POISON
Silver Metal		C	Powder form not permitted Indefinite shelf life			Non-regulated	1	3	0		GENERAL
Silver Nitrate		C	Indefinite shelf life Light sensitive			Highly toxic Oxidizer / corrosive solid Stains skin and clothing	1	0	0	OX	OXIDIZER
Silver Oxide		C	Indefinite shelf life Light sensitive			Flammable solid Slightly toxic	2	0	1		FLAMMABLE
Silver Sulfate		HS	Indefinite shelf life Light sensitive			Non-regulated	1	0	0		GENERAL
Sodium Acetate	Acetic Acid, Sodium Salt	HS	Fair to poor shelf life Hydrate may lose H2O			Skin, eye, and respiratory irritant	0	1	0		MOD. TOXIC
Sodium Benzoate		HS	Indefinite shelf life			Non-regulated	0	1	0		GENERAL
Sodium Bicarbonate	Sodium Hydrogen Carbonate Baking Soda	E	Stable if stored dry. Decomposes slowly in moist air.			Non-regulated	1	0	0		GENERAL
Sodium Bismuthate		HS	Somewhat hygroscopic Slowly decomposes			Oxidizer Irritant	2	0	0		OXIDIZER
Sodium Bisulfate	Sodium Hydrogen Sulfate	MS	Hygroscopic; keep tightly closed			Moderately toxic Irritant	3	0	0		MOD. TOXIC
Sodium Borate	Sodium Tetraborate Borax	MS	Hydrate loses water			Slightly toxic by inhalation & ingestion	2	0	0		GENERAL
Sodium Bromide		MS	Slightly hygroscopic	5 kg		Slightly toxic by inhalation & ingestion	0	0	0		GENERAL
Sodium Carbonate	Soda Ash	MS	Hygroscopic; keep tightly sealed			Irritant	3	0	1		GENERAL
Sodium Chlorate		C	Indefinite shelf life			Flammable Strong Oxidizer	1	0	2	OX	OXIDIZER
Sodium Chloride	Table Salt or Rock Salt	E	Stock Catalog or SMRC			Non-regulated	2	0	0		GENERAL
Sodium Citrate	Citric Acid, Trisodium Salt	E	Indefinite shelf life			Non-regulated	1	1	0		GENERAL

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CHEMICAL NAME	ALTERNATE NAME	LOWEST GRADE LEVEL	STORAGE and PURCHASE RECOMMENDATION	MAX ORDER PER YR	MAX storage AMT	CHEM HAZARD CLASS	HEALTH	FIRE	REACTIVITY	SPECIAL	STORAGE LOCATION
Sodium Cobaltinitrite	Sodium hexanitrocobaltate (III)	HS	Indefinite shelf life Solution decomposes			Slightly toxic Irritant	2	0	0		GENERAL
Sodium Fluoride		C	Indefinite shelf life			Highly toxic Strong skin irritant	3	0	0		POISON
Sodium Hydrogen Sulfate	Sodium Bisulfate	MS	Hygroscopic; keep tightly closed			Irritant Moderately toxic	3	0	0		MOD. TOXIC
Sodium Hydrogen Sulfite	Sodium Bisulfite	C	Poor shelf life Very hygroscopic			Aqueous solution is a severe irritant Slightly toxic	2	0	0		GENERAL
Sodium Hydroxide	Caustic Soda, Soda Lye	C	Good shelf life Keep tightly closed	10 kg		Corrosive-base Evolves much heat when added to water	3	0	1		CORROSIVE BASE
Sodium Hypochlorite	Household Bleach (5% available chlorine)	C	Good shelf life Stock Catalog			Oxidizer-liquid. Evolves chlorine when heated or mixed with acid.	3	0	3		OXIDIZER
Sodium Iodate		C	Keep tightly closed			Oxidizer-solid Slightly toxic	2	0	0		OXIDIZER
Sodium Iodide		MS	Absorbs water from the air and becomes liquid			Slightly toxic	2	0	0		GENERAL
Sodium meta-Bisulfite	Sodium Pyrosulfate	HS	Poor shelf life; moisture sensitive Purchase small quantity	500 g		Irritant Slightly toxic	2	0	0		GENERAL
Sodium Metal		C	Demonstration only Must be stored under mineral oil.	100 g		Flammable solid Dangerous in contact with water or moist air	3	3	2	W	FLAMMABLE
Sodium Metasilicate		HS	Indefinite shelf life			Slightly toxic Irritant	3	0	0		GENERAL
Sodium Nitrate	Saltpeter	C	Indefinite shelf life Small quantity	500 g		Strong oxidizer - avoid friction or shock Moderately toxic	1	0	0	OX	OXIDIZER
Sodium Nitrite		C	Indefinite shelf life	500 g		Strong oxidizer - fire and explosion risk	2	0	0	OX	OXIDIZER
Sodium Nitroferricyanide	Sodium Nitroprusside	C	Poor shelf life - hygroscopic			Highly toxic	2	1	0		POISON
Sodium Oxalate		HS	Poor shelf life - hygroscopic Small quantity	500 g		Moderately toxic Irritant	3	1	0		MOD. TOXIC
Sodium Perborate		C	Decomposes on exposure to warm, moist air.			Strong oxidant Slightly toxic	2	0	4	OX	OXIDIZER
Sodium Peroxide		C	Good shelf life if stored properly	100 g		Oxidizer - explosion / fire risk. Avoid contact with water, alcohol, acids, powdered metals, and organics.	3	0	1	OX	OXIDIZER
Sodium Phosphate, Dibasic	Disodium hydrogen phosphate	MS	Hygroscopic, keep tightly closed			Non-regulated	1	0	0		GENERAL
Sodium Phosphate, Monobasic	Sodium Dihydrogen Phosphate	MS	Slightly hygroscopic			Non-regulated	1	0	0		GENERAL
Sodium Phosphate, Tribasic	Trisodium Phosphate TSP	MS	Indefinite shelf life			Slightly toxic Severe irritant	3	0	0		MOD. TOXIC
Sodium Silicate Solution (37-40%)	Water Glass	MS	Indefinite shelf life			Non-regulated	3	0	0		GENERAL
Sodium Sulfate		MS	Indefinite shelf life			Non-regulated	0	0	0		GENERAL
Sodium Sulfide		C	Fair shelf life - solid or solution			Fire and explosion risk. Evolves toxic H ₂ S on contact with acid.	3	1	1		FLAMMABLE

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CHEMICAL NAME	ALTERNATE NAME	LOWEST GRADE LEVEL	STORAGE and PURCHASE RECOMMENDATION	MAX ORDER PER YR	MAX storage AMT	CHEM HAZARD CLASS	HEALTH	FIRE	REACTIVITY	SPECIAL	STORAGE LOCATION
Sodium Sulfite		HS	Fair shelf life Moisture sensitive			Moderately toxic Irritant	2	0	0		MOD. TOXIC
Sodium Thiocyanate		HS	Fair shelf life Hygroscopic and affected by light			Poison	2	0	0		POISON
Sodium Thiosulfate		MS	Absorbs atmospheric water to become liquid			Slightly Toxic Irritant	1	0	0		GENERAL
Sodium Tungstate		MS	Indefinite shelf life			Non-regulated	1	0	0		GENERAL
Starch	Amaize	E	Indefinite shelf life if kept dry			Non-regulated	1	1	0		GENERAL
Stearic Acid	Octadecanoic Acid	MS	Indefinite shelf life			Non-regulated	1	1	0		GENERAL
Steel Shot		MS	Indefinite shelf life			Non-regulated	1	0	0		METAL
Strontium Bromide		HS	Poor shelf life Absorbs water and becomes liquid			Slightly toxic	1	0	0		GENERAL
Strontium Chloride		HS	Fair to poor shelf life Water sensitive			Non-regulated	1	0	0		GENERAL
Strontium Nitrate		C	Indefinite shelf life			Oxidizer	2	0	0	OX	OXIDIZER
Succinic Acid	Butanedioic Acid	HS	Indefinite shelf life			Slightly toxic	3	1	0		GENERAL
Sucrose	Cane Sugar, Saccharose	E	Indefinite shelf life Stock Cat or SMRC			Non-regulated	0	1	0		GENERAL
Sudan III		MS	Indefinite shelf life			Non-regulated	1	1	0		GENERAL
Sudan IV	Sudan Red	MS	Indefinite shelf life as crystal. Good shelf life as solution			Alcohol solution is flammable Slightly toxic	1	1	0		FLAMMABLE
Sulfanilic Acid crystals	4-Aminobenzenesulfonic Acid	MS	Indefinite shelf life			Non-regulated	2	1	0		GENERAL
Sulfosalicylic Acid	5-sulfosalicylic acid	MS	Indefinite shelf life, but light sensitive			Irritant	3	1	0		GENERAL
Sulfur		C	Indefinite shelf life	20 kg		Combustable / Possible irritant Toxic sulfur dioxide gas is produced when burned.	2	1	0		FLAMMABLE
Sulfuric Acid		C	Good shelf life PVC coated bottles			Corrosive-acid	3	0	2	W	ACID
Tannic Acid		HS	Indefinite shelf life Darkens on contact with air			Slightly toxic	0	1	0		ACID
Tartaric Acid		MS	Indefinite shelf life			Non-regulated	0	1	0		GENERAL
Thymol blue		MS	Indefinite shelf life			Non-regulated	1	1	0		GENERAL
Thyroxine		MS	Indefinite shelf life			Non-regulated	-	-	-		GENERAL
Tin (II) chloride (dihydrate)	Stannous Chloride	HS	Poor shelf life Reacts with oxygen and moisture from air	500 g		Moderately toxic Irritant	2	0	0		MOD. TOXIC

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CHEMICAL NAME	ALTERNATE NAME	LOWEST GRADE LEVEL	STORAGE and PURCHASE RECOMMENDATION	MAX ORDER PER YR	MAX storage AMT	CHEM HAZARD CLASS	HEALTH	FIRE	REACTIVITY	SPECIAL	STORAGE LOCATION
Tin (IV) Chloride	Stannic Chloride	C	Poor shelf life Reacts with oxygen and moisture from air			Produces hydrochloric acid on contact with warm moist air.	3	0	1		GENERAL
Tin (IV) Oxide	Stannic Oxide	HS	Indefinite shelf life			Non-regulated	1	0	0		GENERAL
Tin Metal		MS	Powder is not permitted			Non-regulated	1	3	0		METAL
Titanium (IV) Oxide	Titanium Dioxide	MS	Indefinite shelf life			Non-regulated	1	0	0		GENERAL
Toluidine Blue O		MS	Indefinite shelf life			Moderately toxic by ingestion	1	1	0		MOD. TOXIC
Trichloroacetic Acid	TCA	HS	Poor shelf life Absorbs water very quickly			Moderately toxic Corrosive to body tissue	3	0	0		MOD. TOXIC
Turpentine	Pure Gum Spirits	C	Indefinite shelf life			Combustable	1	3	0		FLAMMABLE
Universal Indicator		MS	Indefinite shelf life			Alcohol-based solution is flammable.	0	3	0		FLAMMABLE
Urea	Carbamide	MS	Indefinite shelf life			Non-regulated	2	1	0		GENERAL
Vinegar		E	Indefinite shelf life Stock Catalog or SMRC			Non-regulated	1	0	0		GENERAL
Wright's Stain		MS	Indefinite shelf life			Non-regulated	1	0	0		GENERAL
Zeolite		HS	Indefinite shelf life			Non-regulated	-	-	-		GENERAL
Zinc Acetate		HS	Good shelf life			Moderately toxic by ingestion Possible irritant	3	0	0		MOD. TOXIC
Zinc Chloride		HS	Absorbs water to become liquid			Severe skin irritant moderately toxic	3	0	0		MOD. TOXIC
Zinc Metal		HS	Powder in smallest quantity only. Must be kept dry.			Non-regulated	3	3	1		METAL
Zinc Nitrate		C	Small quantity	1 kg		Oxidizer Severe irritant Moderately toxic	2	0	0	OX	OXIDIZER
Zinc Oxide		C	Indefinite shelf life			If heated, fumes severely toxic	2	0	0		GENERAL
Zinc Sulfate		C	Hydrate loses water in dry air Small quantity	500 g		Irritant Slightly toxic	3	0	0		GENERAL
Zinc Sulfide		C	Poor shelf life - moisture sensitive Store far from acids.			Contact with acids produces toxic and flammable H ₂ S gas	2	0	0		GENERAL