

## Recommended Storage Groups for Common Chemicals

CHEMICAL	Group	Ethers	L	(K <sub>3</sub> PO <sub>4</sub> )
1-Butanol or 2-butanol	L	Ethidium bromide	G	Propionic acid
1-Propanol	L	Ethyl acetate	L	Propylene oxide
2-Mercaptoethanol	L	Ethylene glycol	L	Pump oil
Acetic acid, glacial (flammable)	D	Ficoll	G	Pyridine
Acetic anhydride (in THF or acetone: L)	X	Formaldehyde	L	SDS (Sodium dodecyl sulfate) (in solution: G)
Acetone	L	Formamide	L	Sigmatocote
Acetonitrile	L	Formic Acid (≥85%)	D	Sodium acetate
Acetaldehyde	L	Glutaraldehyde	G	Sodium azide
Acrolein	X	Glycerol	L	Sodium bicarbonate
Acrylamide	G	Glycine	G	Sodium bisulfate
Agarose	G	Guanidine hydrochloride	G	Sodium bisulfite
Ammonium acetate	G	Guanidinium thiocyanate	C	Sodium borate
Ammonium chloride	G	Halothane, isoflurane	G	Sodium borohydride
Ammonium formate	G	HEPES	G	Sodium carbonate
Ammonium hydroxide	C	Hexanes	L	Sodium chlorate
Ammonium nitrate	E	Hydrochloric acid	F	Sodium chloride (NaCl)
Ammonium persulfate	E	Hydrogen peroxide, > 5%	E	Sodium citrate dihydrate
Ammonium sulfate	G	Hydrogen peroxide, < 5%	G	Sodium dichromate
Ammonium sulfide	L	Imidazole	A	Sodium dichromate dihydrate
Benzene	L	Isobutyl alcohol	L	Sodium hydroxide (NaOH)
Benzyl chloride	B	Isopentane	L	Sodium hypochlorite
Benzoic acid	D	Isopropanol	L	Sodium hypochlorite solution (i.e. bleach)
BIS/Bis-acrylamide	G	Lithium hydroxide	C	Sodium phosphate
BIS-TRIS	A	Magnesium chloride	G	Sodium sulfide, anhydrous
BIS-TRIS-HCl	G	Magnesium sulfate	G	Succinic acid
Borax	G	Maleic acid	D	Sucrose
Boric acid	G	Methanol	L	Sulfuric acid
Calcium chloride	G	<i>N</i> -Methyl-2-pyrrolidone	L	Tannic acid
Chloroform	G	<i>N,N</i> -Dimethylformamide	L	TEMED
Chromic acid	I	Nitric acid	I	TES free acid
Citric acid	D	<i>p</i> -Dioxane	L	Tetracycline
Coomassie Blue	G	Paraformaldehyde	L	Tetrahydrofuran
Dextrose	G	Perchloric acid	I	Trichloroacetic acid
Dichloromethane	L	Periodic acid	I	Trifluoroacetic acid
Diethylamine (flammable)	A	Permout	L	Toluene
Diethyl pyrocarbonate (DEPC)	L	Phenol (solid)	G	Triethanolamine
Dimethyl sulfoxide (DMSO)	L	Phenol (liquid, ≤ 89% phenol)	L	TRIS
Drierite	G	Phosphoric acid	F	Triton X-100
Econo-Safe, UniverSOL, BetaMax, CytoScint, Scintisafe, EcoLume, Ecoscint, Opti-fluor	L	Picric acid (any concentration)	X	Trizol
EDTA (in solution: G)	D	Piperidine	A	TWEEN 20
Ethanol	L	PIPES, free acid	G	Urea
Ethanolamine	A	Potassium acetate	G	WD-40
		Potassium chloride	G	Xylenes
		Potassium cyanide	C	Zinc chloride
		Potassium hydroxide (KOH)	C	
		Potassium phosphate	G	

*This Storage Group System was created by Stanford University.*

*See other side for information about the (Stanford) Storage Group System. Storage Groups are continuously reviewed and updated as needed. If you have any questions or suggested changes, please contact the University of Hawaii EHSO at 808-956-5097.*

Effective segregation in chemical storage reduces the risk of dangerous chemical reactions.

This guide must be used in conjunction with information from the manufacturer's safety data sheets and chemical-specific expert knowledge.

This storage group system is intended to be used in research settings to store laboratory-scale quantities of chemicals.

# STORAGE GROUPS

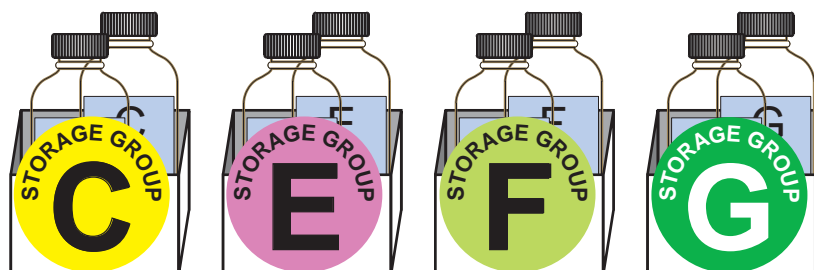
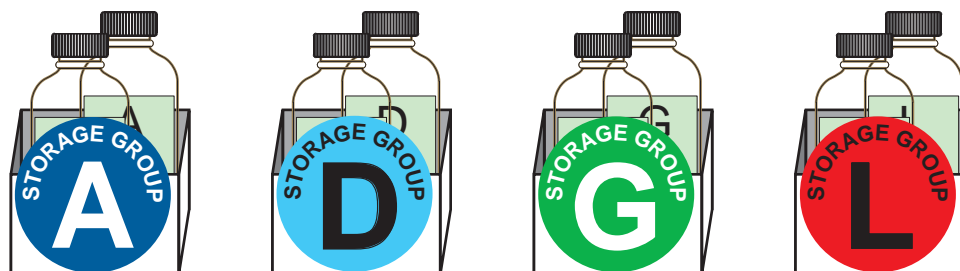
Store chemicals in separate secondary containment and cabinets

- A** Compatible Organic Bases
- B** Compatible Pyrophoric & Water Reactive Materials \*
- C** Compatible Inorganic Bases
- D** Compatible Organic Acids
- E** Compatible Oxidizers & Peroxides (not including Strong, Oxidizing Acids)\*
- F** Compatible Inorganic Acids (not including Oxidizers or Combustibles)
- G** Not Inherently Reactive, Flammable, or Combustible
- I** Compatible Strong, Oxidizing Acids
- J** Poison Compressed Gases\*
- K** Compatible Stable Explosives\* (not including Oxidizing Explosives)
- L** Flammables, Combustibles, & Organic Solvents
- X** Incompatible with ALL Other Chemicals\* (including other Chemicals within X)

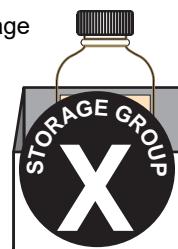
\* Contact UH EHSO @ 808-956-5097 or email at [labsafe@hawaii.edu](mailto:labsafe@hawaii.edu)

\* Special handling and storage requirements - Consult manufacturer's SDS

If space does not allow Storage Groups to be kept in separate cabinets the following scheme can be used with extra care taken to provide stable, uncrowded, and carefully monitored conditions.



NOTE: Different chemicals within Storage Group X must be segregated from each other.



Storage Group X must be segregated from all other chemicals.



Storage Group B is not compatible with any other storage group.