STANFORD COMPATIBLE STORAGE GROUP GUIDE

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.

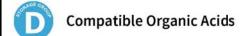
This storage group system is intended to be used in research settings to store laboratory-scale quantities of chemicals.

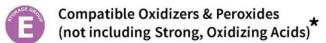
What to Segregate

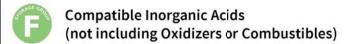
Compatible Organic Bases

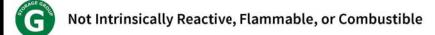




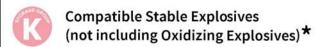










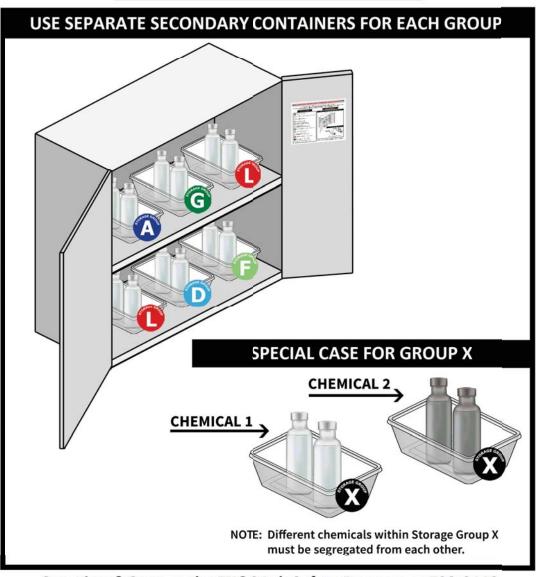


Flammables, Combustibles, & Organic Solvents

Incompatible with ALL Other Chemicals (including other chemicals within X) *

* These materials are likely to require special handling & storage conditions. Use extreme caution.

How to Segregate



Questions? Contact the EH&S Lab Safety Program at 723-0448
Use ChemTracker to find a chemical's Storage Group - stanford.chemtracker.org

Recommended Storage Groups for Common Chemicals

CHEMICAL	Group
1-Butanol or 2-butanol	L
1-Propanol	L
2-Mercaptoethanol	L
Acetic acid, glacial	D
(flammable)	
Acetic anhydride	L
Acetone	L
Acetonitrile	L
Acetaldehyde	L
Acrolein	L
Acrylamide	G
Agarose	G
Ammonium acetate	G
Ammonium chloride	G
Ammonium formate	G
Ammonium hydroxide	С
Ammonium nitrate	Е
Ammonium persulfate	Е
Ammonium sulfate	G
Ammonium sulfide	L
Benzene	L
BIS/Bis-acrylamide	G
BIS-TRIS	A
Borax	G
Boric acid	G
Calcium chloride	G
Carbenicillin	G
Chloroform	G
Chromic acid	I
Citric acid	D
Coomassie Blue	G
Dextrose	G
Dichloromethane	G
Diethylamine	A
(flammable)	
Diethyl pyrocarbonate	L
(DEPC)	
Dimethyl sulfoxide	L
(DMSO)	
Drierite	G
EcoLume, UniverSOL,	L
BetaMax, CytoScint,	
Scintisafe, Econo-Safe,	
Ecoscint, Opti-fluor	
EDTA (in solution: G)	D
Ethanol	<u>L</u>
Ethanolamine	A
Ethers	<u>L</u>
Ethidium bromide	G

Ethyl acetate	L
Ethylene glycol	L
Ficoll	G
Formaldehyde	L
Formamide	L
Formic Acid (88%)	D
Glutaraldehyde	G
Glycerol	L
Glycine	G
Guanidine hydrochloride	G
Guanidinium thiocyanate	С
Halothane, isoflurane	G
HEPES	G
Hexanes	L
Hydrochloric acid	F
Hydrogen peroxide, > 5%	E
Hydrogen peroxide, < 5%	G
Imidazole	A
Isobutyl alcohol	$\frac{T}{L}$
Isopentane	L
Isopropanol	L
Magnesium chloride	G
Magnesium sulfate	G
Maleic acid	D
Methanol	L
	L
N-Methyl-2-pyrrolidone	
N,N-Dimethylformamide	_ <u>L</u>
Nitric acid	
<i>p</i> -Dioxane	L
Paraformaldehyde	L
Perchloric acid	I
Periodic acid	I
Permount	L
Phenol (solid)	G
Phenol (liquid, ≤ 89%	L
phenol)	
Phosphoric acid	F
Picric acid (any	X
concentration)	
Piperidine	A
PIPES, free acid	G
Potassium acetate	G
Potassium chloride	G
Potassium cyanide	C
Potassium hydroxide	C
(KOH)	
Potassium phosphate	G
(K_3PO_4)	
Propionic acid	D
Propylene oxide	L

Pump oil	L
Pyridine	A
SDS (Sodium dodecyl	L
sulfate) (in solution: G)	
Sigmacote	L
Sodium acetate	G
Sodium azide	X
(in solution: G)	
Sodium bicarbonate	G
Sodium bisulfate	G
Sodium bisulfite	G
Sodium borate	G
Sodium borohydride	В
Sodium carbonate	G
Sodium chlorate	Е
Sodium chloride (NaCl)	G
Sodium citrate dihydrate	G
Sodium dichromate	Е
dihydrate	
Sodium hydroxide	С
(NaOH)	
Sodium hypochlorite	E
Sodium hypochlorite	E
solution (i.e. bleach)	
Sodium phosphate	G
Sodium sulfide,	В
anhydrous	
Succinic acid	D
Sucrose	G
Sulfuric acid	I
Tannic acid	D
TEMED	A
TES free acid	G
Tetracycline	G
Tetrahydrofuran	L
Trichloroacetic acid	D
Trifluoroacetic acid	D
Toluene	L
Triethanolamine	A
TRIS	Α
Triton X-100	G
Trizol	L
TWEEN 20	G
Urea	G
WD-40	L
Xylenes	L
Zinc chloride	G