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



Compatible Pyrophoric & Water-Reactive Materials*



Compatible Inorganic Bases



Compatible Organic Acids



Compatible Oxidizers & Peroxides * (not including Strong, Oxidizing Acids)



Compatible Inorganic Acids (not including Oxidizers or Combustibles)



Not Intrinsically Reactive, Flammable, or Combustible



Compatible Strong, Oxidizing Acids



Compatible Stable Explosives * (not including Oxidizing Explosives)



Flammables, Combustibles & Organic Solvents 🚯

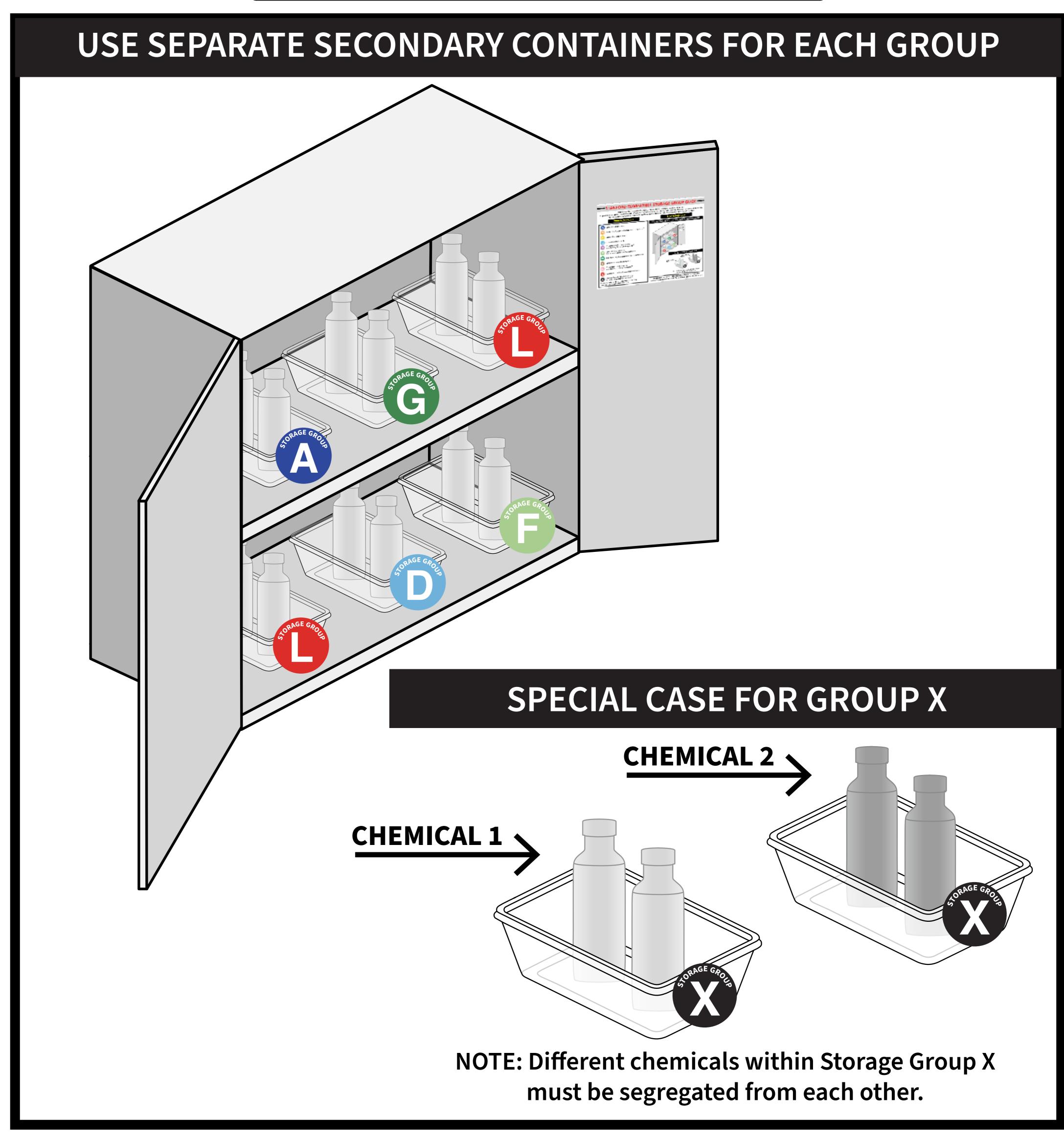


Incompatible with ALL Other Chemicals * (including other chemicals within X)

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

These materials must be stored in a flammable cabinet.

How to Segregate



Questions? Contact the EH&S Lab Safety Program at 723-0448 Use ChemTracker to find a chemicals' 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	Χ
(in THF or acetone: L)	
Acetone	L
Acetonitrile	L
Acetaldehyde	L
Acrolein	Х
Acrylamide	G
Agarose	G
Ammonium acetate	G
Ammonium chloride	G
Ammonium formate	G
Ammonium hydroxide	С
Ammonium nitrate	E
Ammonium persulfate	E
Ammonium sulfate	 G
Ammonium sulfide	L
Benzene	L
Benzyl chloride	В
Benzoic acid	D
BIS/Bis-acrylamide	G
BIS-TRIS	A
BIS-TRIS-HCl	G
Borax	G
Boric acid	G
Calcium chloride	G
Chloroform	
Chromic acid	G
0 0 0	<u> </u>
Citric acid	D
Coomassie Blue	G
Dextrose	G
Dichloromethane	L
Diethylamine (flammable)	
Diethyl pyrocarbonate	L
(DEPC)	
Dimethyl sulfoxide (DMSO)	
Drierite	G
Econo-Safe, UniverSOL,	L
BetaMax, CytoScint,	
Scintisafe, EcoLume,	
Ecoscint, Opti-fluor	
EDTA (in solution: G)	D
Ethanol	L
Ethanolamine	Α

Ethers	L
Ethidium bromide	G
Ethyl acetate	L
Ethylene glycol	L
Ficoll	G
Formaldehyde	L
Formamide	L
Formic Acid (≥85%)	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%	
Imidazole	A
Isobutyl alcohol	1
Isopentane	L
Isopropanol	L
Lithium hydroxide	
Magnesium chloride	G
Magnesium sulfate	G
Maleic acid	D
Methanol	ī
N-Methyl-2-pyrrolidone	L
N,N-Dimethylformamide	ī
Nitric acid	<u> </u>
<i>p</i> -Dioxane	i
Paraformaldehyde	
Perchloric acid	<u> </u>
Periodic acid	i
Permount	Ĺ
Phenol (solid)	G
Phenol (liquid, ≤ 89%	L
phenol)	_
Phosphoric acid	F
Picric acid (any	X
concentration)	^
Piperidine	Α
PIPES, free acid	G
Potassium acetate	G
Potassium chloride	G
Potassium cyanide	С
Potassium hydroxide (KOH)	С
Potassium phosphate	G
i otassium phosphate	G

(K ₃ PO ₄)	
Propionic acid	D
Propylene oxide	L
Pump oil	L
Pyridine	Α
SDS (Sodium dodecyl	L
sulfate) (in solution: G)	
Sigmacote	L
Sodium acetate	G
Sodium azide	Χ
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 (NaOH)	С
Sodium hypochlorite	Е
Sodium hypochlorite	Е
solution (i.e. bleach)	
Sodium phosphate	G
Sodium sulfide, anhydrous	В
Succinic acid	D
Sucrose	G
Sulfuric acid	ı
Tannic acid	G
TEMED	Α
TES free acid	G
Tetracycline	G
Tetrahydrofuran	L
Trichloroacetic acid	D
Trifluoroacetic acid	D
Toluene	L
Triethanolamine	Α
TRIS	Α
Triton X-100	G
Trizol	L
TWEEN 20	G
Urea	G
WD-40	L
Xylenes	L
Zinc chloride	G