

UVM 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.



University
of Vermont

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 



Storage group unknown, no data available



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

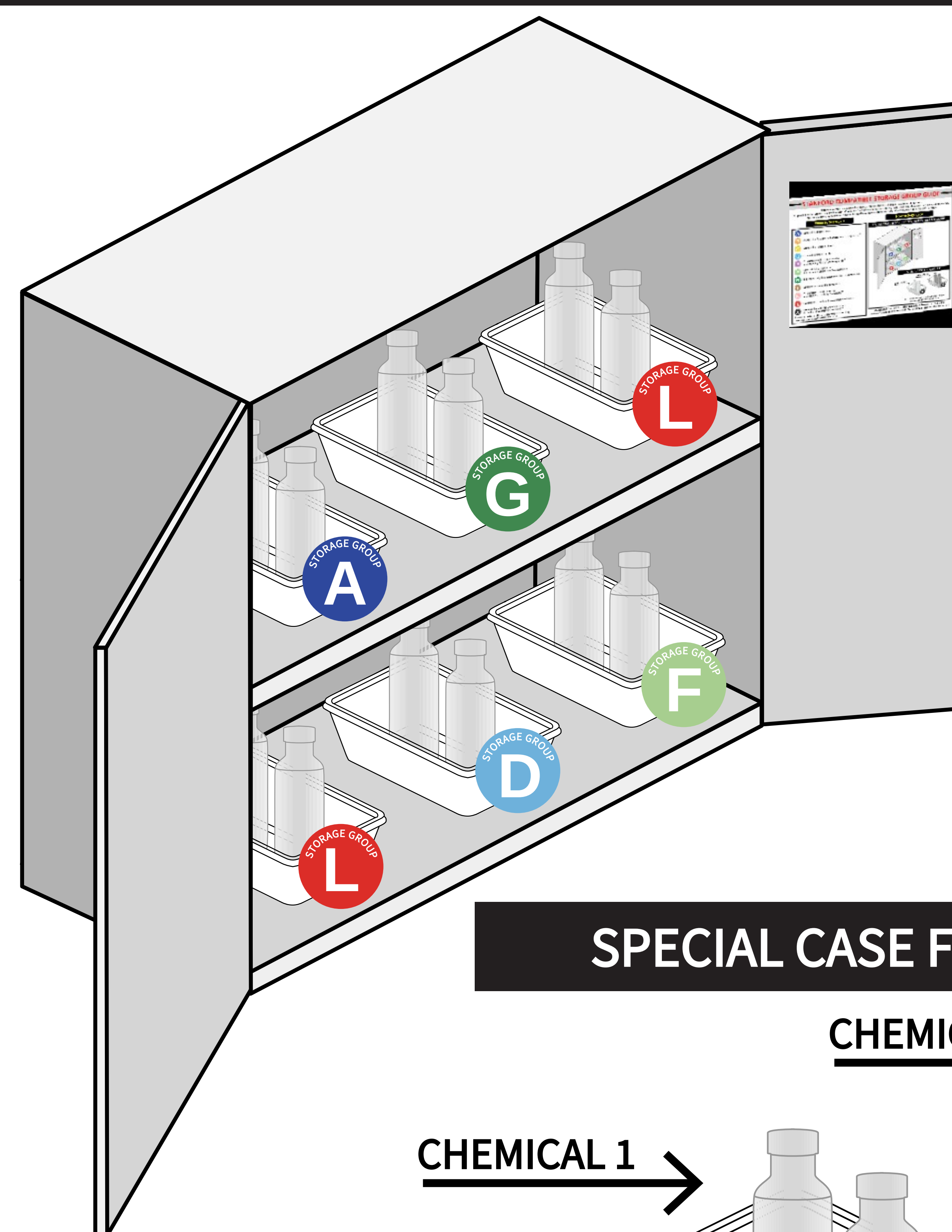
*GASES: Ensure gas cylinders are properly secured to the wall or bench and are segregated by hazard.

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

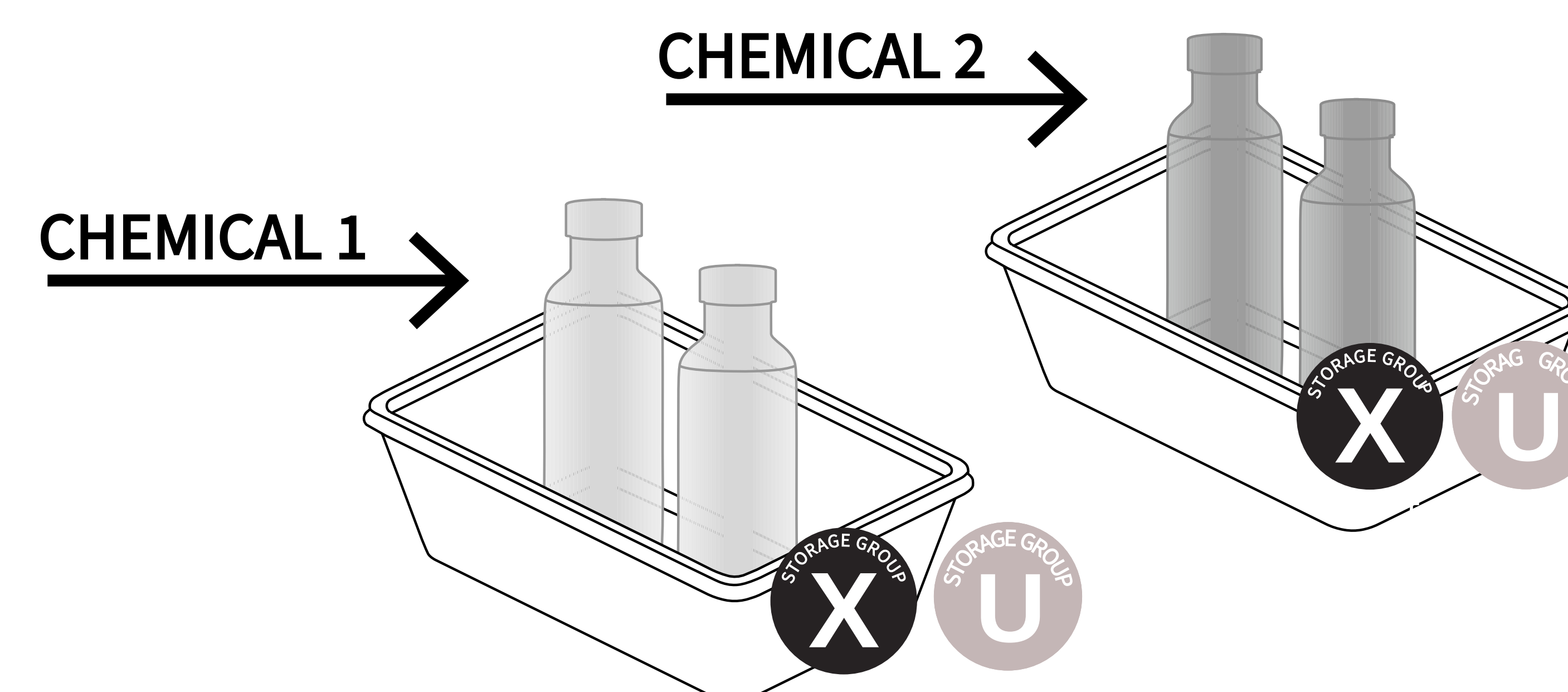
 These materials must be stored in a flammable cabinet.

How to Segregate

USE SEPARATE SECONDARY CONTAINERS FOR EACH GROUP



SPECIAL CASE FOR GROUPS U and X



NOTE: Different chemicals within Storage Groups U and X must be segregated from each other.

Questions? Contact the EHS Lab Safety at safety@uvm.edu
Use ChemTracker to find a chemicals' Storage Group – uvm.scishield.com
<https://www.uvm.edu/safety/label-and-store-chemicals>

Recommended Storage Groups for Common Chemicals

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

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	C
Halothane, isoflurane	G
HEPES	G
Hexanes	L
Hydrochloric acid	F
Hydrogen peroxide, > 5%	E
Hydrogen peroxide, < 5%	G
Imidazole	A
Isobutyl alcohol	L
Isopentane	L
Isopropanol	L
Lithium hydroxide	C
Magnesium chloride	G
Magnesium sulfate	G
Maleic acid	D
Methanol	L
N -Methyl-2-pyrrolidone	L
N , N -Dimethylformamide	L
Nitric acid	I
p -Dioxane	L
Paraformaldehyde	L
Perchloric acid	I
Periodic acid	I
Permout	L
Phenol (solid)	G
Phenol (liquid, ≤ 89% phenol)	L
Phosphoric acid	F
Picric acid (any concentration)	X
Piperidine	A
PIPES, free acid	G
Potassium acetate	G
Potassium chloride	G
Potassium cyanide	C
Potassium hydroxide (KOH)	C
Potassium phosphate	G

(K ₃ PO ₄)	
Propionic acid	D
Propylene oxide	L
Pump oil	L
Pyridine	A
SDS (Sodium dodecyl sulfate) (in solution: G)	L
Sigmacote	L
Sodium acetate	G
Sodium azide	X
Sodium bicarbonate	G
Sodium bisulfate	G
Sodium bisulfite	G
Sodium borate	G
Sodium borohydride	B
Sodium carbonate	G
Sodium chlorate	E
Sodium chloride (NaCl)	G
Sodium citrate dihydrate	G
Sodium dichromate dihydrate	E
Sodium hydroxide (NaOH)	C
Sodium hypochlorite	E
Sodium hypochlorite solution (i.e. bleach)	E
Sodium phosphate	G
Sodium sulfide, anhydrous	B
Succinic acid	D
Sucrose	G
Sulfuric acid	I
Tannic acid	G
TEMED	A
TES free acid	G
Tetracycline	G
Tetrahydrofuran	L
Trichloroacetic acid	D
Trifluoroacetic acid	D
Toluene	L
Triethanolamine	A
TRIS	A
Triton X-100	G
Trizol	L
TWEEN 20	G
Urea	G
WD-40	L
Xylenes	L
Zinc chloride	G

See other side for information about the UVM Storage Group System. Storage Groups are continuously reviewed and updated as needed.

If you have any questions or suggested changes, please contact EHS at safety@uvm.edu.

<https://www.uvm.edu/safety/label-and-store-chemicals>