

Instructions

Use the Safety Data Sheet for H₂SO₄ to complete the table. Use the table to arrange the chemicals for storage in the best way possible.

No more than 4 bottles can go on a shelf. Note that only one cabinet has a vent. You must choose only one cabinet to protect with a padlock. *You may have to make some compromises or hard choices.*

								Incompatible With	Additional Notes
Acetic Acid		X	X	X					
Acetone		X					X		
NH ₄ OH				X		X	X		
<i>t</i> -BuLi		X		X	X		X	H ₂ O, CO ₂	Pyrophoric
CH ₂ Cl ₂					X		X		
Ethanol		X					X		
Diethyl ether		X					X		Peroxide former
<i>n</i> -Hexane		X			X		X		
HCl			X	X					
Mg(OH) ₂							X		
HNO ₃	X			X					
KClO ₄	X						X		COC*
NaCN			X			X		acids	COC*
H ₂ SO ₄									
TiCl ₄			X	X				H ₂ O	COC*
Distilled H ₂ O									

* COC = Chemical of Concern for possible misuse as a weapon or weapon precursor.

When you are done, share your results and discuss with those around you.

Was there one "perfect" way to store the chemicals?

Did you have to make compromises? What were they?

What were your main priorities?