## **Chemical Segregation and Storage Table**

CHEMICAL	RECOMMENDED STORAGE METHOD	CHEMICAL EXAMPLES	INCOMPATIBLES Always
CLASS			consult SDS
Flammable	Store in a cool, dry area, avoid oxidizing gases. Gas	Methane, Acetylene,	Oxidizing and toxic
Compressed	cylinders should be strapped (chained) securely to a wall	Propane	compressed gases
Gases	or sturdy bench top	riopane	
Compressed	Store in a cool, dry area, separate from flammable gases	Oxygen, Chlorine	Flammable gases
Gases (oxidizers)	and liquids. Gas cylinders should be strapped (chained)	Bromine	
()	securely to a wall or sturdy bench top		
Compressed	Store in a cool, dry area, separate from flammable gases	Carbon monoxide	Flammable and/or oxidizing
Gases	and liquids. Gas cylinders should be strapped (chained)	Hydrogen sulfide	gases
(Poisonous)	securely to a wall or sturdy bench top		
Corrosives –	Store in appropriate acid cabinets. Separate from bases	Minerals acids	Flammable liquids,
Inorganic acids	and organic acids. Do not store on metal shelves. Nitric	(Hydrochloric/sulfuric/	flammable solids, bases and
	acid (strong oxidizer) should be stored by itself in a	Chromic/Nitric).	oxidizers. Organic acids.
	secondary container or other acid cabinet if available		
Corrosives-	Store in appropriate acid cabinets. Separate from	Acetic acid	Flammable liquids/ solids
Organic acids	inorganic acids. Avoid storing on metal shelves	Formic acid	Bases, Oxidizers
		Propionic acid	Inorganic acids
Corrosives-	Store in appropriate corrosives cabinet separate from	Potassium hydroxide,	Flammable liquids, acids,
Inorganic Bases	acids	Ammonium hydroxide	oxidizers, organic bases
Corrosives-	Store in corrosives cabinet, separated from acids	Hydroxylamine	Acids
Organic Bases	and inorganic bases	Tetramethylethylamine	Oxidizers
		Diamine,	Hypochlorites
		Triethylamine	Inorganic bases
Explosives	Store in a secure location away from other chemicals,	Trinitrophenol,	Consult SDS sheets or RMS
	store in areas away from shock or friction	Picric Acid,	for chemical and process
		DiazoisobutyInitrile	specific info
		Cyclonite	
Flammable	An approved flammable storage cabinet	Ethanol, Methanol,	Acids, bases, oxidizers
Liquids	Peroxide-forming chemicals must be dated upon delivery	Acetone, Xylene,	
	and opening (See Peroxide Handling Guidelines on RMS	Toluene, Diethyl Ether,	
	website)	Tetrahydrofuran	
Flammable Solids	Cool dry area away from oxidizers and corrosives	Paraformaldehyde	Acids, bases, oxidizers
Water Reactive	Store in a cool dry location. Protect from fire	Sodium metal	Aqueous solutions,
Chemicals	Sprinkler system and other sources of water. Label area	Lithium metal Potassium	oxidizers, water sources.
	for water-reactive storage.	Metal, Metal hydrides	Consult SDS sheets or RMS
		Sodium Borohydride	for chemical and /or process
			specific info
Oxidizers	Store in secondary containment with non-combustibles	Perchlorates, Nitrates	Flammables, combustibles
	,	Permanganates,	organic materials
Toxic Chemicals	In a ventilated, dry, cool area in a chemically resistant	Chloroform, Cyanides,	Flammable liquids, acids,
(Poisons)	secondary container	Heavy Metals such as	bases, reactive, oxidizers
-		Cadmium, Mercury	
			Consult chemical specific
Non-hazardous /	Storage on laboratory benches, or shelves with like	Sodium bicarbonate,	Consult chemical specific
Non-hazardous / General stock	Storage on laboratory benches, or shelves with like Chemicals. Use upper shelves for non-hazardous	Agar, Salt buffers	SDS sheets
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