Hazardous Material/Hazardous Waste Storage Incompatibility Chart

If the material contains:	It may not be stored with any of the following:		
Acid (pH below 2.0)	Caustics (pH above 12.5)		
	Reactive Metals		
	Alcohol		
	Water		
	Aldehydes		
	Halogenated, Nitrated, or Unsaturated Hydrocarbons		
	Reactive Organic Compounds and Solvents		
	Spent Cyanide and Sulfide Solutions		
	Oxidizers		
Caustic (pH above 12.5)	Acid (pH below 2.0)		
	Reactive Metals		
	Alcohol		
	Water		
	Aldehydes		
	Halogenated, Nitrated, or Unsaturated Hydrocarbons		
	Reactive Organic Compounds and Solvents		
Reactive Metals	Caustics		
	Acids		
	Alcohol		
	Aldehydes		
	Halogenated, Nitrated, or Unsaturated Hydrocarbons		
	Reactive Organic Compounds and Solvents		
	Oxidizers		
Reactive Organic Compounds and	Caustics		
Solvents	Acids		
	Reactive Metals		
Spent Cyanide and Sulfide Solutions	Acids		
Oxidizers	Acetic or Other Organic Acids		
	Concentrated Mineral Acids		
	Reactive Metals		
	Reactive Organic Compounds and Solvents		
	Ignitable [Flammable/Combustible] Wastes*		

Substances in bold have detailed example lists on the next page.

*"Ignitable" in this context refers to substances with a flashpoint below 140°F and includes: Combustible substances, with a flashpoint below 140°F Flammable substances, with a flashpoint below 100°F.

Some Deadly Combinations

Acids + Oil or Grease = Fire	Flammable Liquids + Hydrogen Peroxide = Fire/Explosion
Acids + Caustics = Heat/Spattering	Aluminum Powder + Ammonium Nitrate = Explosion
Caustics + Epoxies = Extreme Heat	Sodium Cyanide + Sulfuric Acid = Lethal Hydrogen Cyanide
Chlorine Gas + Acetylene = Explosion	Ammonia + Bleach = Noxious Fumes

Reactives must be segregated from Ignitables Acids must be segregated from Caustics Corrosives should be segregated from Flammables Oxidizers should be segregated from EVERYTHING Many Corrosives are "Water Reactive" Most Organic Reactives must be segregated from Inorganic Reactives (metals)

Ignitables	Corrosives	
(Flammables/Combustibles)	Acids	Caustics
Carburetor Cleaners Engine Cleaners Epoxy, Resins, Adhesives, and Rubber Cements Finishes Fuels Lacquers Paints Paint Thinners Paint Wastes Pesticides that contain Solvents (such as Methyl Alcohol, Ethyl Alcohol, Isopropyl Alcohol, Toluene, Xylene)	Battery Acids Degreasers and Engine Cleaners Etching Fluids Hydrobromic Acid Hydrochloric Acid (Muriatic Acid) Nitric Acid (<40%)(Aquafortis) Phosphoric Acid Rust Removers Sulfuric Acid (Oil and Vitriol)	Acetylene Sludge Alkaline Battery Acids Alkaline Cleaners Alkaline Degreasers Alkaline Etching Fluids Lime and Wastewater Potassium Hydroxide (Caustic Potash) Rust Removers Sodium Hydroxide (Caustic Soda, Soda Lye)
Petroleum Solvents (Drycleaning Fluid)		
Solvents: Acetone Benzene	Reactive Metals	Reactive Organic Compounds and Solutions
Carbon Tetrachloride (Carbon Tet) Ethanol (Ethyl Alcohol) Ethyl Benzene Isopropanol (Isopropyl Alcohol) Kerosene (Fuel Oil #1) Methanol (Wood Alcohol) Methyl Ethyl Ketone (MEK) Petroleum Distillates Tetrahydrofuran (THF) Toluene (Methacide, Methylbenzene, Methylbenzol, Phenylmethane, Toluol, Antisal 1A) White Sprits (White Spirits, Mineral Spirits, Naptha) Xylene (Xylol) Stains Stripping Agents Varsol Waste Fuels Waste Ink Wax Removers Wood Cleaners	Lithium (Batteries) Aluminum Beryllium Calcium Magnesium Sodium Zinc Powder	Alcohols Aldehydes Chromic Acids (from chrome plating, copper stripping and aluminum anodizing) Cyanides (from electroplating operations) Hypochlorides (from water treatment plants, swimming pools, sanitizing operations) Organic Peroxides (including Hydrogen Peroxide) Perchlorates Permanganates Sulfides
	Oxidizers	
	Chlorine Gas Nitric Acid (>40%), aka Red Fuming Nitric Nitrates (Sodium Nitrate, Ammonium Nitrate) Perchlorates Perchloric Acid Perioxides Calcium Hypochlorite (>60%)	