

Chemical Storage Considerations



GHS Pictogram	Characteristics	Storage Considerations
Explosives 	Capable of self-sustained chemical reaction, of producing gas at such temperature, pressure speed as to damage surroundings; or is manufactured for the purpose of producing explosion.	Dry. Cool area protected from shock, rising temperature changes. Site should be separate from other storage/activities. Magazines should be heavily constructed.
Flammable Gas 	A compressed gas and forms a flammable mixture at normal atmospheric pressure over a significant range of concentration.	Ventilated, cool, dry area away from heat and ignition sources. Cylinder temperature should never exceed 51°C (125°F). Stored secure in an upright position and care taken to avoid damaging valves. Separate full and empty containers.
Non Flammable Gas 	A compressed gas, dissolved gas, or liquefied by compression or refrigeration.	Ventilated, cool, dry area away from heat and ignition sources. Avoid elevation of cylinder temperature and store secured in an upright position. Avoid damaging valves. Separate full and empty containers.
Dangerously Reactive When Wet 	When in contact with water or water vapour emits a flammable or toxic gas; becomes spontaneously combustible under conditions of shock or increased temperatures or pressure or can undergo hazardous decompositions.	Ventilated, cool, dry and waterproof area. Ensure no water sprinkler system in area and use alternative fire fighting system (i.e. Halon suppression). Containers should be elevated above potential flood levels.
Oxidizers 	Liable to cause or contribute to the combustion of other materials by yielding oxygen or other oxygen material; or is an organic peroxide.	Ventilated, cool, dry area away from direct sunlight. Protect from temperature elevation or rapid temperature changes. Fire fighting procedures should be reviewed as normal.
Flammable/Combustible Liquids and Solids 	Can be ignited at normal temperatures; or can cause a fire through friction or retained heat.	Ventilated, cool, dry area. Eliminate possible ignition sources. Ensure proper firefighting equipment. Storage area should be fireproofed and comply with fire code.
Acids 	Can significantly corrode steel or aluminum; or is corrosive to skin and has a pH ≤ 2.0.	Ventilated, cool, dry area away from direct sunlight in approved containers. Protect storage area from rapid temperature changes. Structural and stacking materials should not be non-corroding or metal covered with acid fume resistant paint.
Bases 	Can significantly corrode steel or aluminum; or is corrosive to skin and has a pH ≥ 12.5.	Ventilated, cool, dry area away from direct sunlight in approved containers. Protect storage area from temperature elevation and rapid changes. Structural and stacking materials should not be non-corroding or metal covered with acid fume resistant paint.
Toxins 	Is poisonous, and or radioactive, and/or infectious, and/or hazardous to the environment, and waste materials may be hazardous.	Ensure containers are secure, closed and properly labelled.