

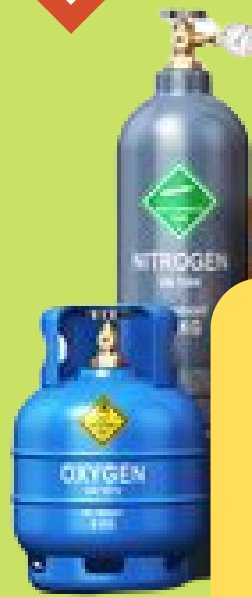
## GAS CYLINDER HAZARD



High pressure inside the cylinder may cause:

- Uncontrolled rockets or pinwheels.
- Vessels to burst, create leaks in equipment or hoses, or produce runaway reactions.

Heavy weight & large in size.



# SAFETY OF COMPRESSED GAS CYLINDER

## HAZARD FROM THEIR CONTENT



- Flammable
- Toxic
- Corrosive
- Oxidizing
- Explosive
- Asphyxiation, as inert gas can displace oxygen and reduce the concentration level in the body.

## Accidents involving gas cylinders are often caused by :



Improper storage area



Incorrect installation of components



Damage to tool and/or cylinder design



Incompetence handling of gas



Unexpected gas release



Insufficient training & monitoring



Poor inspection & maintenance



Hidden damage

## General Safety Measures

Know the chemical & physical properties of the gases.



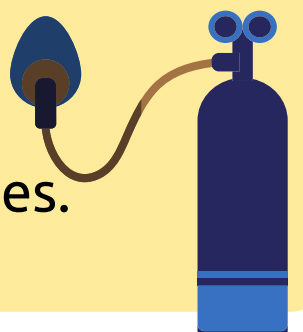
Only personnel trained in the proper transportation and safe use of gas cylinders should handle cylinders.



All cylinders must be labeled with contents and stage of use (Full/In use/Empty).



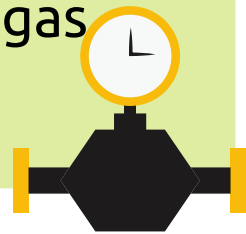
Pressure regulators and gauges must be compatible with the cylinder valves.



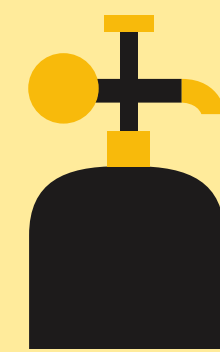
Wear proper personal protective equipment. Refer to SDS for safety information on the gas cylinder.



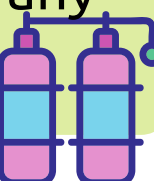
Clean the gas valves and fixtures from any impurities such as dust, oil or rust to avoid gas leak incident.



Make sure the gas regulator is properly installed and tighten.



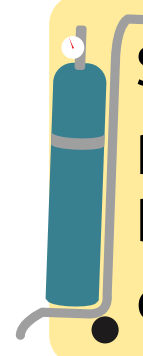
Whenever a compressed gas cylinder is used, inspect the gas cylinder, gas regulator and connectors to detect any leakage or damage.



Store & use in well ventilated areas, away from heat or ignition sources.



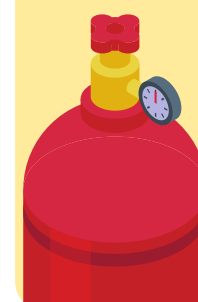
Store cylinders in upright position. Cylinders must be secured by used of chains.



Segregated cylinders by hazard classes while in storage.



Stop pressure from the gas regulator if not in use.



## DON'TS

- Do not purchase more or larger cylinders than necessary.
- Do not permit oil or grease to contact cylinders or their valves, especially cylinders containing oxidizing gases.
- Do not use Teflon tape on cylinder or tube fitting connections.
- Do not heat the cylinder for the purpose of increasing gas pressure.
- Do not use copper fittings or tubing on acetylene tanks.
- Do not refill the cylinder on your own.

