Hazard Alert

Compressed Gas Cylinder Safety

All compressed gases present a stored energy hazard from the high pressure inside the cylinder.

A damaged cylinder may become an uncontrolled rocket or pinwheel and cause severe injury or damage.

The valve of a compressed gas cylinder is its most vulnerable part, and it must be protected by the cap when moving the cylinder.

**Always ensure the protective cap is in place when moving a gas cylinder**

**Recommendations**

Have cylinders moved to and from your lab by Praxair whenever possible.

If you must move a cylinder, take the following precautions:

- Close the cylinder valve and remove the regulator.
- Where cylinders are designed to accept a valve protection cap, secure the cap in place on the cylinder before it is moved.
- Do not lift or move cylinders by the valve or valve protection cap.
- Do not roll, drag, slide or allow the cylinder to drop in any way that could damage it.
- Use a cylinder hand cart or other device designed for the purpose and ensure the cylinder is held in place with a strap or chain.
- Only remove the protective cap once the cylinder will be connected for use AND is securely restrained with chains at \( \frac{1}{3} \) and \( \frac{2}{3} \) the height of the cylinder.

Do not expose cylinders to direct heat, flame or temperature extremes; and protect cylinders from sources of potential physical damage, electrical contact or corrosion. For more information about safe storage and use, refer to the lab safety manual and [http://www.sfu.ca/srs/ehs/research-safety/chemical-safety/chemical-storage.html](http://www.sfu.ca/srs/ehs/research-safety/chemical-safety/chemical-storage.html).