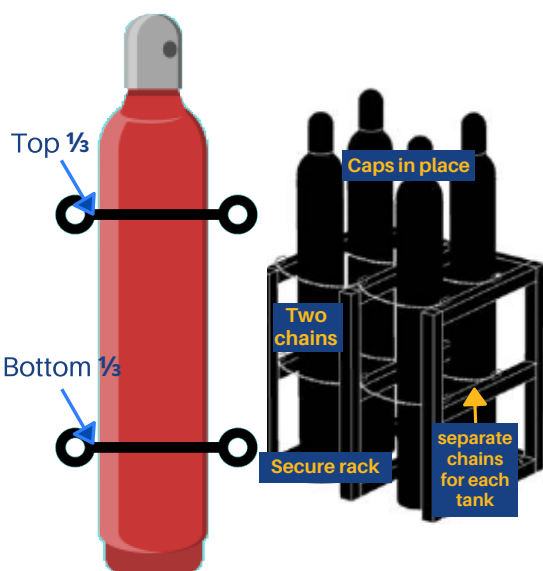


12 MONTHS OF RESEARCH SAFETY JULY 2021

COMPRESSED GAS STORAGE

Compressed gases have high pressures, which if not handled correctly can cause over-pressurization of equipment and explosions, and high expansion, which can displace oxygen in confined or poorly ventilated spaces. Some gases have specific chemical hazards, such as toxicity or flammability, which require special consideration. The following best practices will help you get started with compressed gas storage in your research laboratory.

Compressed Gas Storage Best Practices



Do

- Take Compressed Gas Safety training online
- Restrain cylinder with **two** chains
- Keep safety caps on when not in use
- Keep Cylinders vertical
- Store empty cylinders separately from full cylinders
- Store in a well-ventilated area
- Limit access to storage area

Don't

- Restrain multiple cylinders with one restraint
- Store cylinders in corridors or within 10 feet of an exit
- Use cylinders while unsecured or on a cart
- Store flammables within 20 feet of oxidizers
- Store outside in full sun
- Use hydrogen, pyrophorics, or toxic gases without consulting with EH&S

Compressed Gases in UC Chemicals Inventory

To maintain an accurate chemical inventory, compressed gases should be included in UC Chemicals. Since cylinders are often procured and stored different from other lab chemicals, special consideration may be required. Use our "Adding Gas Cylinders to your Chemical Inventory" guide to start maintaining your chemical gas inventory: <https://ehs.ucr.edu/document/adding-gas-cylinders-your-chemical-inventory>

Gas Cylinder
Inventory Guide



Need help with compressed gas storage?

Can't figure out the best way to store cylinders in your lab? Missing chains or restraints? Before putting in a work order, EH&S can help with a solution. Email a photo and description to ehslaboratory@ucr.edu and we will work with you to meet your gas storage needs.

CONTACT US

Phone: 951-827-5528

Email: ehslaboratory@ucr.edu

Website: <https://ehs.ucr.edu/laboratory>

Report an Incident, Injury or Safety Concern [Here](#)

 **Questions?**