

To: Members of Chemistry Department
From: Alex Wei (Dept. Safety Chair) and Will Swann (Safety TA)
Re: Class D Fire Extinguisher: Location and Standard Operating Procedure

If working with highly pyrophoric materials such as finely divided metals or *t*-butyllithium, we ask researchers to have the Department's Class D fire extinguisher (CDFE) on hand prior to working with such hazardous reagents. While the red BC extinguishers in our research labs are appropriate for solvent and electrical fires, they cannot be used on ignited metals due to their high chemical reactivity. Only the CDFE is rated specifically for metal fires.



Class D Fire Extinguisher (CDFE), located between WTHR 419 and 420 (locked)

The CDFE is located near WTHR 419 and 420 and can be carted easily to any lab in BRWN or WTHR, but is secured with a combination padlock. To use it, please follow the steps below:

- 1) Contact Will Swann or Rita Woodard for the combination code. It can be written down and shared with group members (but not electronically; treat as a secure password).
- 2) Enter on the sign-out sheet your name, PI's name, checkout date, and lab location.
- 3) Bring the CDFE to your lab and place it within easy reach of the hood with pyrophoric reagents.
- 4) Perform your reaction(s) as intended. If you plan to run multiple reactions with pyrophoric agents, you may keep the CDFE in your lab for up to a week (for longer periods, discuss with Will Swann).
- 5) Return the CDFE to its original location and secure it with the padlock.
- 6) Enter return date, and indicate any status change for the CDFE (used, almost empty, etc.)

If the CDFE is not in its regular location, check the sign-out sheet to see who is in possession of it. (if you borrow the CDFE from the previous user, please perform Step 2!)