



# STANFORD UNIVERSITY

## ENVIRONMENTAL HEALTH & SAFETY

### What to do After Completing *Chemical Safety for Laboratories*

Understand the chemical hazards associated with your operations and in your laboratory before you start your work.

Obtain prior approval from your PI or lab supervisor before working with Stanford University Restricted Chemicals.

Consult with your PI or lab supervisor before working with particularly hazardous substances or highly reactive or unstable chemicals.

Follow established Standard Operating Procedures for your lab operation - work with your Principal Investigator to prepare one, if not yet established. Use appropriate engineering controls, work practice controls and personal protective equipment to minimize your chemical exposures.

In conjunction with your supervisor, conduct required quarterly self-inspections of your lab.

In conjunction with your supervisor, keep the lab's online chemical inventory up to date and the Life Safety Box contact information current.

Ensure the security of your laboratory and chemicals.

Store and transport chemicals appropriately following Stanford's chemical storage system.

If exposed to chemicals, flush affected area using eyewash/safety shower for 15 minutes, then proceed for medical treatment with an SDS.

If chemical is spilled or released, provide information to emergency responders, or clean spills smaller than 30 milliliters, as appropriate.

Additional lab safety training may be required depending on the hazards with which you will be working. Visit the online Training Advisor for guidance. A link is provided at the end of this module. You must also receive lab-specific safety training from your Principal Investigator/Lab Supervisor. Additional training is required when new hazards are introduced into your lab work.



# STANFORD UNIVERSITY

## ENVIRONMENTAL HEALTH & SAFETY

### Chemical Safety References

#### Chemical Hygiene Plan

Link: <http://chemhygieneplan.stanford.edu>

Establishes a written program that provides for and supports the procedures, equipment, personal protective equipment, and work practices for protecting laboratory personnel from potential health hazards of using hazardous chemicals in the laboratory.

#### Laboratory Chemical Safety Toolkit

Link: <http://chemtoolkit.stanford.edu>

An online compendium to the Chemical Hygiene Plan (CHP) which provides guidance to Principal Investigators and lab personnel on compliance with the institutional CHP.

#### EH&S Reproductive and Developmental Health Protection Program

Link: <http://ehs.stanford.edu/mainrencon/occhealth/Reproductive>

Review the program for additional information and links to request a work place health and safety assessment.

#### Safety Data Sheets

Link: <http://msds.stanford.edu>

Safety Data Sheets are replacing Material Safety Data Sheets (MSDS) in providing safety hazard information in individual, chemical-specific documents. They should be readily accessible for all chemicals used in your laboratory.

#### Stanford University Chemical Safety Database

Link: <http://chemsafetydata.stanford.edu>

Provides easily accessible details on a chemical's basic hazards and for most chemicals, provides guidance on storage compatibility by assigning an appropriate chemical storage group.

#### ChemTracker

Link: <http://ehs.stanford.edu/chemicalinventory>

All chemicals, including gases, stored and used at Stanford must be accounted for in ChemTracker. To become a user of the ChemTracker database, contact <http://chemtrackerhelp.stanford.edu>.

#### Quarterly Self-inspection Form

Link: <http://www.stanford.edu/dept/EHS/prod/researchlab/lab/checklists/labshop.pdf>

Lab inspections are required quarterly and must be stored for three years.

#### Stanford Chemical Storage Groups Poster

Link: [https://ehsapprd1.stanford.edu/ehs-training/snippets/courses/chem/units/pop-ups/chemical\\_segregation\\_jobaid.pdf](https://ehsapprd1.stanford.edu/ehs-training/snippets/courses/chem/units/pop-ups/chemical_segregation_jobaid.pdf)

This poster shows the storage group system and can be printed and hung in your lab for reference.



# STANFORD UNIVERSITY

## ENVIRONMENTAL HEALTH & SAFETY

### Shipping of Biological Goods, Dry Ice Shipping and Small Quantities of Chemicals

Register through STARS: <http://axess.stanford.edu> to become certified;  
EHS 2700 Biological Goods/Dry Ice, or EHS 2650 Excepted Quantities of Chemicals  
For all other Chemical Shipping, call EH&S at (650)723-0448.

Non health-threatening emergency chemical releases must be reported to the Stanford EH&S Hazardous Materials Team at (650)725-9999.

Fire Extinguisher Training is available through EH&S, call (650)723-0448.