

Chemical and Physical Safety in the Lab: *Training Resources*

VUMC Policies and Standard Operating Procedures

- VUMC Policy: Hazardous Chemical Right-to-Know, Hazard Communication <https://vanderbilt.policytech.com/docview/?docid=32669>
- VUMC SOP: Compressed Gas Safety Precautions <https://vanderbilt.policytech.com/docview/?docid=37384>

OCRS <https://www.vumc.org/safety>

- OCRS Chemical Safety Staff <https://www.vumc.org/safety/staff#chem>
- Training <https://www.vumc.org/safety/training>
- Hazard Communication Standard <https://www.vumc.org/safety/osha/hazard-communication-standard>
 - Pictograms Reference https://www.vumc.org/safety/sites/vumc.org.safety/files/public_files/osha/what-pictograms-mean.pdf
 - Safety Data Sheets (SDS) Reference https://www.vumc.org/safety/sites/vumc.org.safety/files/public_files/osha/safety-data-sheets-info.pdf
 - Safety Data Sheets (SDS) <https://www.vumc.org/safety/sds>
- The Laboratory Standard <https://www.vumc.org/safety/osha/lab-standard>
 - VUMC Chemical Hygiene Plan <https://www.vumc.org/safety/chem/chp>
- Respiratory Protection Standard <https://www.vumc.org/safety/osha/respiratory-protection-standard>
- Managing Chemicals
 - Peroxide Forming Chemicals: Management, Retention and Storage <https://www.vumc.org/safety/chem/peroxide-forming-chemicals>
 - Managing Compressed Gases <https://www.vumc.org/safety/chem/managing-compressed-gases>
 - Compressed Liquid Gases (Cryogenes) https://www.vumc.org/safety/sites/default/files/public_files/bio/cryogenes-safety-practices.pdf
 - Compressed Gas & Liquid Safety at VUMC (clinical areas) <https://www.vumc.org/safety/clinical/vumc-compressed-gas-safety>
 - Managing Particularly Hazardous Substances (PHS) <https://www.vumc.org/safety/chem/managing-particularly-hazardous-substances>
 - Managing Chemical Retention and Storage <https://www.vumc.org/safety/chem/managing-chemical-retention-and-storage>
 - Chemical Inventory Management <https://www.vumc.org/safety/chem/chemical-inventory-management>
 - Chemical Compatibility Chart <https://www.vumc.org/safety/chem/chem-compatibility-chart>
- Lab Closeout Procedures <https://www.vumc.org/safety/waste/lab-vacate>
- Laboratory Moving Fact Sheets <https://www.vumc.org/safety/waste/lab-move>
- Personal Protective Equipment (PPE) <https://www.vumc.org/safety/links/personal-protective-equipment>
- General Work Practices for Laboratory Hoods <https://www.vumc.org/safety/chem/fume-hood-safe-work-practices>
- Laser Safety <https://www.vumc.org/safety/admin/content/block>
- Research Lab Eyewash Log https://www.vumc.org/safety/sites/default/files/public_files/research/eyewash-log-research.pdf

Other VUMC Resources

- Occupational Health <https://www.vumc.org/health-wellness/occupational-health/>
- Student Health <https://www.vumc.org/student-health/>
- Clinical Lab Eyewash Test Log <https://edocs.app.vumc.org/EDocsView.aspx?EDocsId=1338>

Federal and State Government Resources

- TOSHA <https://www.tn.gov/workforce/employees/safety-health/tosha.html>
- OSHA <https://www.osha.gov>
 - Hazard Communication Standard <https://www.osha.gov/hazcom/standards>
 - Laboratory Standard <https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.1450>
 - Labeling and Transfer of Chemicals <https://www.osha.gov/sites/default/files/publications/OSHAquickfacts-lab-safety-labeling-chemical-transfer.pdf>
 - Chemical Fume Hoods <https://www.osha.gov/sites/default/files/publications/OSHAquickfacts-lab-safety-chemical-fume-hoods.pdf>
 - Centrifuges <https://www.osha.gov/sites/default/files/publications/OSHAquickfacts-lab-safety-centrifuges.pdf>
- Environmental Protection Agency <https://www.epa.gov/>
- CDC online course: Fundamentals of Centrifuge Safety <https://reach.cdc.gov/course/fundamentals-centrifuge-safety>

Other Resources

- American Chemical Society (ACS) <https://www.acs.org/>
 - Risk Rating & Assessment <https://institute.acs.org/acs-center/lab-safety/hazard-assessment/fundamentals/risk-assessment.html>
 - Hazard Assessment Tools <https://institute.acs.org/acs-center/lab-safety/hazard-assessment/tools.html>
 - Safety Video (Safety Data Sheets) <https://www.youtube.com/watch?v=iQDbrR04tbU&t=62s>
- Doffing Disposable Gloves https://www.youtube.com/watch?v=3l_kVNrEMo&t=91s