

## LABORATORY SAFETY

Regulations governing Laboratory Safety at the University of Utah:

1. 29 CFR 1910.1450 Occupational Exposure to Hazardous Chemicals in Laboratories
2. 20 CFR 1910 Subpart Z Toxic and Hazardous Substances
3. 29 CFR 1910.1200 Hazard Communication
4. 29 CFR 1910.1030 Blood Borne Pathogens
5. 29 CFR 1910.147 Control of Hazardous Energy
6. 29 CFR 1910 Subpart I Personal Protective Equipment
7. 29 CFR 1910.95 Occupational Noise Exposure
8. 29 CFR 1910.25-27 Ladder Safety
9. 29 CFR 1910 Subpart E Means of Egress
10. 29 CFR 1910.97 Non-Ionizing Radiation
11. 29 CFR 1910 Subpart H Hazardous Materials
12. 29 CFR 1910 Subpart K Medical and First Aid
13. 29 CFR 1910.169 Compresses Gas and Compressed Air Equipment
14. 29 CFR 1910 Subpart O Machinery and Machine Guarding
15. 29 CFR 1910 Subpart S Electrical
16. 29 CFR 1910 Subpart D Walking Working Surfaces
17. 29 CFR 1910 Subpart J General Environmental Controls
18. 29 CFR 1910.101 Compressed Gases
19. 40 CFR Part 792 Good Laboratory Practices
20. 21 CFR Part 1 Food, Drug, and Cosmetic Act: General
21. 21 USC Chapter 13 Controlled Substances Act
22. 42 CFR 73.3 Select Agents
23. 9 CFR 121.3, 121.4 Select Agents
24. 7 CFR 331.3 Select Agents

Consensus standards covering Laboratory Safety:

25. NFPA 45 Standard on Fire Protection for Laboratories Using Chemicals
26. ANSI Z9.5-2012 Laboratory Ventilation
27. ANSI 358.1-2009 Standard for Emergency Eyewashes and Shower Equipment
28. ANSI Z400.1/Z129.1-2010 Hazardous Workplace Chemicals – Hazard Evaluation and Safety Data Sheet and Precautionary Labeling Preparation
29. Guide for the Care and Use of Laboratory Animals, *The National Academy of Science*
30. ACGIH Threshold Limit Values and Biological Exposure Indices, *ACGIH*

Guidance Documents Illustrating Best Practices for Laboratory Safety

31. Prudent Practices in the Laboratory, *The National Academy of Science*

32. Design Requirements Manual for Biomedical Laboratories and Animal Research Facilities, *NIH Office of Research Facilities*
33. NIOSH Pocket Guide to Chemical Hazards, *Dept. of Health and Human Services*

#### Major EHS Responsibilities

Program/Policy/Rule/Guideline Development and Oversight  
Laboratory Audits/Inspections  
Risk Assessment  
Protocol Review  
Hazardous Materials Inventories  
Documentation and Recordkeeping  
Meetings/Consultations/Training  
Fume Hood Testing  
Emergency Shower/Eyewash Testing  
Incident Response

#### Relevant Professional Certifications

National Registry of Professional Chemists – Certified Chemical Hygiene Officer  
American Board of Industrial Hygiene – Certified Industrial Hygienist  
Board of Certified Safety Professionals – Certified Safety Professional

Comments: Top level lab safety requires a commitment from principal investigators and lab management personnel to provide training on laboratory specific hazards.