

Chemistry Lab Safety inspection

Date:

Lab bldg/room# \_\_\_\_\_

Lab owner \_\_\_\_\_

### **Signage**

1. Door safety signs updated
2. Fire extinguishers unencumbered
3. Safety showers & eye washes clear
4. Lab chemical inventory on hand or available on computer
5. Emergency instructions posted

### **Waste**

6. chemical waste properly labeled
7. Plastic buckets, not glass bottles used for solvent waste
8. chemical wastes properly segregated by compatibility
9. Waste containers properly closed (solid waste included)
10. No chemical waste in glass waste
11. No chemicals or samples in trash
12. No sharps (needles, razors) in trash

### **Chemical storage**

13. Chemicals segregated according to compatibility
14. Nitric acid stored in separate secondary containment
15. Oxidizers and peroxides stored in separate secondary containment.
16. Reducing agents (eg. metal hydrides) stored properly
17. Flammable solvents in flammable storage
18. Flammable or explosion proof refrigerator/freezer used for flammables.
19. Base baths labeled and in secondary containment
20. No chemicals stored in sink.
21. Chemicals (particularly flammable ones) not stored in hoods or on benches

### **Chemical Labeling**

22. All reagents labeled in original bottles or properly labeled in temporary containers-recommend to lab workers to date bottles when purchased and opened.
23. Samples labeled with chemical or sample name, researchers initials, lab notebook number and date.
24. Peroxide forming solvents dated when purchased and opened.

### **Personal Protective Equipment**

25. Goggles in use with chemicals in lab with hazards
26. Gloves & lab coats being wore with chemicals
27. Extra goggles available

### **Proper Procedures**

28. Chemical operations with hazardous solvents or powders in hoods or glovebox
29. Hoods kept closed to recommended sash level

30. Reactions labeled and attended.
31. Work space uncluttered and clean
32. No food (including gum) or drink in labs (except at designated desk areas)
33. No chemicals on desks or eating areas
34. Gloves and lab coats removed before leaving labs
35. Gas cylinders securely attached to lab benches or walls.
36. Appropriate safety measures used with highly hazardous chemicals and gases.
37. Cryogloves and goggles (or splash shield) used with cryogenes
38. Syringes and needles put away (preferably in lockable drawer)
39. Balances clean (no brush)
40. Electrical wiring to instruments un-frayed
41. No nichrome wire heated oil baths
42. No tripping hazards with equipment or solvents stored in walkways (28 " clear path)

Use floor plan to map identified problems by number to facilitate inspection and correction of deficiencies.

Overall Comments on lab:

Chemical Safety Committee Inspector(s) \_\_\_\_\_