

## Chemistry Laboratory Self Inspection Form

(Name):PI \_\_\_\_\_ LSR \_\_\_\_\_

Building: \_\_\_\_\_ Lab #: \_\_\_\_\_ Inspection Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Year \_\_\_\_\_ Jan  Feb  Mar  Apr  May  Jun  Jul  Aug  Sep  Oct  Nov  Dec

### Documentation and Records

Yes No

- Emergency Door Card(s) are posted as necessary and contact information is current and correct.
- A laboratory chemical inventory is available and updated in the Chemical Inventory System. You may access your inventory on line.
- Laboratory safety self-inspections are performed and documented (Recommended minimum is quarterly).

Comments: \_\_\_\_\_

### Laboratory Practices, Equipment & Facilities

Yes No

- Is good housekeeping practiced in the work area? Is it free of debris, combustibles, excessive storage and obstructions? Are spills promptly cleaned up?  
Comments: \_\_\_\_\_
- Are food and beverages prepared and consumed away from lab workspaces and stored out of chemical storage refrigerators and cabinets?
- Is proper Personal Protective Equipment (PPE) readily available for all personnel, including visitors, and worn when working in the lab? (Safety glasses or goggles, appropriate gloves, lab coat, apron, face shield, etc. NO SHORTS OR SANDALS)  
Comments: \_\_\_\_\_
- Are eye wash/safety showers available in areas where corrosives and toxics are used?  
 Blocked       Not Apparent       Needed but not available  
Comments: \_\_\_\_\_
- Do lab personnel know the location and how to operate the safety shower/eye-wash and is it accessible (not blocked)?
- Do lab personnel have access and understand how to use Material Safety Data Sheets (MSDSs)? (Access database at: <http://msds.chemalert.com.au/default.aspx?code=10000076>; <https://us.vwr.com/store/search/searchmsds.jsp>; <http://www.sigmaaldrich.com/safety-center.html>)  
Comments: \_\_\_\_\_
- Is the fume hood sash at a proper operating level and is a quantitative flow device (magnehelic gauge, visual indicators w/ red & green warning lights, low flow alarm, etc) present to verify the hood is drawing air properly?  
Comments: \_\_\_\_\_

Laboratory Practices, Equipment & Facilities (Continued)

Yes No

- Is storage of chemicals and equipment kept to a minimum in the fume hood so airflow is not impeded or excessive turbulence generated?

Comments: \_\_\_\_\_

- Are all of the lab facilities in good repair, including light fixtures, plumbing and ceiling tiles?

Comments: \_\_\_\_\_

- Are microwave ovens, refrigerators and freezers properly labeled based on storage classification (NON-FLAM CHEM ONLY, etc.)?

Comments: \_\_\_\_\_

Hazardous Materials Storage & Labeling

Yes No

- Do chemical containers have legible, current labels to identify contents and hazards of the material?

- Are chemicals segregated according to hazard class and compatibility (oxidizing from organic acids, bases, flammables, etc.), into appropriate storage cabinets (corrosives, flammables) or labeled secondary containment trays?

Comments: \_\_\_\_\_

- Are peroxide forming chemicals (ethyl ether, tetrahydrofuran, dioxane) managed in the lab (date of purchase, date opened, disposed when expired)?

Comments: \_\_\_\_\_

- Are flammable liquids used / stored away from sources of heat and ignition?

- Are approved, spark-proof, lab-safe refrigerators and freezers used for storage of flammable liquids that require them?

Comments: \_\_\_\_\_

- Are all excess flammable liquids (dispensing reagent containers and aggregate > 10 gal.), including wastes, kept in approved flammable liquid storage rooms or cabinets?

- Do flammable liquid cabinet doors close and latch properly?

- Are corrosives, flammables, skin-absorbable poisons and heavy equipment kept below eye level?

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- Are all flammable liquid cabinets located away from evacuation routes; heat or ignition sources and combustible materials storage (i.e., no paper stored on or around cabinet)?

Comments: \_\_\_\_\_

- Are all gas cylinders properly secured with a metal straps or chains (top 1/3, bottom 1/3) or other adequately engineered system to prevent tipping or falling?

Comments: \_\_\_\_\_

**Hazardous Materials Storage & Labeling** (continued)

**Yes No**

Are fuel gas cylinders and oxygen cylinders separated by distance and fire-resistant barriers, while in storage?

Comments: \_\_\_\_\_

Are cylinder valves shut off, gauges removed and valve caps in place when not required for ongoing experiments?

Comments: \_\_\_\_\_

Are cylinder contents labeled and labels easily seen?

Comments: \_\_\_\_\_

Are flammables, corrosives and skin-absorbable poisons kept off the floor in common practice and secondarily contained if temporary placement on the floor is necessary?

Comments: \_\_\_\_\_

Are glass and sharps (needles, syringes, razor blades, etc.) stored in approved puncture resistant containers and properly labeled (biohazardous sharps, sharps, etc.)?

Comments: \_\_\_\_\_

Are secondary containment trays clean and free of visible contamination?

Comments: \_\_\_\_\_

**Hazardous Waste Storage & Disposal**

Are hazardous materials disposed of properly, rather than by sewer, evaporation or ordinary trash, (including containers with any remaining chemicals)?

Comments: \_\_\_\_\_

Are all waste containers w/ liquid in secondary containment? Is the containment free of spills and contamination? Is the storage location visible or identified to EH&S?

Comments: \_\_\_\_\_

Is the size of the container appropriate for the rate of waste accumulation?

Comments: \_\_\_\_\_

Are incompatibles segregated (e.g. acids and bases in separate trays)?

Comments: \_\_\_\_\_

Are all containers sealed with the proper fitting lids/caps at all times except when adding hazardous waste?

Comments: \_\_\_\_\_

**Hazardous Waste Storage & Disposal (continued)**

**Yes No**

- Are container tops and sides free of spillage or visible contamination?  
Comments: \_\_\_\_\_
- Are the containers no more than 80% full?  
Comments: \_\_\_\_\_
- Are all containers, lids and caps compatible with hazardous waste (e.g., strong acids or bases stored in glass containers as opposed to plastic.)?  
Comments: \_\_\_\_\_
- Are all hazardous waste containers stored in a safe location (e.g. not in high traffic areas, away from any heat source)?  
Comments: \_\_\_\_\_
- Are all hazardous waste containers disposed of within 3 months of accumulation start date and/or are all full containers listed on a chemical waste pickup form to be submitted to EH&S?  
Comments: \_\_\_\_\_
- Are Extremely Hazardous Wastes properly identified and kept in quantities of < 1 quart? Are all full containers disposed of within three days? (List of Extremely Hazardous Wastes Available)  
Comments: \_\_\_\_\_

**Hazardous Waste Labeling**

**Yes No**

- Do all hazardous waste containers have an EH&S Hazardous Waste Tag attached before waste is added to the container?
- Are all chemical ingredients listed as part of the waste composition? Are chemical names and not formulas used?  
Comments: \_\_\_\_\_

**Fire and Electrical Safety**

**Yes No**

- Are fire doors unobstructed and closed during work?
- Are fire extinguishers mounted, clearly visible and fully charged?
- Is emergency equipment (alarm pull boxes, fire alarms, etc.) accessible and not blocked?  
Comments: \_\_\_\_\_
- Are supplies and equipment stored at least 18 inches from fire detection and suppression devices?
- Are electrical boxes, panels, receptacles, and fittings properly covered to prevent shock?

**Fire and Electrical Safety** (continued)

**Yes No**

- Are the electrical appliances and lab equipment in good repair or removed from service?  
Comments: \_\_\_\_\_
- Are electrical extension cords used only for temporary operations, equipped with a 3-prong plug, kept out of walkways and run directly to outlet (no daisy chain)?  
Comments: \_\_\_\_\_
- Are all multiple-outlet surge suppressers/power strips approved, used only for computers, peripherals and small equipment (not to power high wattage equipment)?  
Comments: \_\_\_\_\_
- Are electrical outlets within 6 feet of a water source or "wet area" equipped with a GFCI-type outlet (consider water baths, aquariums, & other operations with electrocution risk)?  
Comments: \_\_\_\_\_
- Are electrical cords free from damage, fraying, tape, or cracking; grounded with 3-prong plugs and not run through doors, across walkways or under equipment?  
Comments: \_\_\_\_\_
- Is there at least a 30-inch clearance in front of electrical panels/breaker boxes?
- Are hot plates, temp-blocks and other temporary heating units unplugged when not in use?  
Comments: \_\_\_\_\_

**Illumination and Egress**

**Yes No**

- Are exit signs visible and illuminated?
- Are exit aisles clear and free of obstructions (44", 36" or 24" clearance as required)?
- Are the windows, doors and automatic door closing devices in good repair?  
Comments: \_\_\_\_\_

**Seismic Safety**

**Yes No**

- Are shelves and equipment greater than 4 ft. tall seismically braced to prevent falling?
- Do shelves and cabinet tops have lips or bungee restraints to prevent items from falling?
- Are shelf tops > 5 feet high without bungee or other restraints free of storage?  
Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_