**University of Kansas**

**Department of Environment, Health & Safety**

**Laboratory Safety Program**

**Laboratory Registration & Hazard Identification**

Identify and assess laboratory hazards and potentially harmful materials with respect to university safety policy, as well as standard laboratory safety practice. (Laboratory safety manual, Part I, Section 3.3)

Many radioactive, biological, and chemical materials require prior review and approval by Environment, health & Safety (EHS) and/or university safety committees before ordering and/or working with them. This information nis also used for creating door postings, facilitating emergency response procedures, and coordinating laboratory safety efforts.

This form is updated by the Principal Investigator and/or lab Supervisor annually or each time the hazards change. File one copy in the laboratory and submit a second copy to EHS.

**Submit completed form for reviews and approvals:**

Department of Environment, Health & Safety

University of Kansas, 101 Kurata Building, (2330 Cromwell Drive)

Attention: Laboratory Safety

I am familiar with the policies and procedures of the University of Kansas regarding laboratory safety. I hereby certify that the use of all materials and all activities undertaken within this lab will be in accordance with the policies and procedures of the **KU Laboratory Safety Manual**.

**Laboratory Information:**

Post this information exterior lab door. Please contact EHS, 4-4089, for assistance.

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Building: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Room#: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Department: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Phone#: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Faculty PI / Lab Supervisor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Phone#: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Primary Emergency Contact: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Phone#: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Alternate Emergency Contact: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Phone#: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Lab Hazards:** **Lab Category:**

(Mark all that apply) (Mark only one)

\_\_ Radiation \_\_ Research Focused

\_\_ Biohazards (Infectious Material, rDNA) \_\_ Teaching Focused

\_\_ Chemicals \_\_ Support Focused

\_\_ Physical Hazards (heights, tools, ovens, confined spaces, etc.)

\_\_ Lasers, Ionizing and/or Non-Ionizing devices.

*For more information, please visit the EHS website,* [*http://www.ehs.ku.edu/*](http://www.ehs.ku.edu/)*, or call 864-4089:*

***LAB SAFETY EQUIPMENT***

Identify safety equipment present in the lab:

|  |  |  |
| --- | --- | --- |
| **Equipment** | **Note** | **Present in Lab** |
| **Emergency Equipment** |  |  |
| Safety Shower in Lab (or location of closest one) |  | Y N |
| Eyewash (hands-free operation) | Weekly flushing required by lab staff. | Y N |
| Drench Hose / Hoses |  | Y N |
| Chemical Spill Kit | Call EHS 4-4089 for a free kit | Y N |
| Fire Blanket |  | Y N |
| First Aid Kit | Supplied by Lab or Department. | Y N |
|  |  |  |
| **Personal Protective Equipment (PPE)** |  |  |
| Personal Protective Equipment: safety glasses, goggles, face shields, gloves, lab coats, etc. | Supplied by Lab | Y N |
| Full–length pants or Skirt, shoes that completely cover feet. | Supplied by Individual | Y N |
| Respirators used by lab personnel  *Date of Last EHS Respirator Use Training:* | Requires specific training, fit tests, and medical monitoring. | Y N |

|  |  |  |
| --- | --- | --- |
| **Required Training Records and Compliance Documents on file.** |  | Y N |

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| --- | --- | --- |
| **Local Exhaust Ventilation** |  | Y N |
| Chemical Fume Hood(s) |  | Y N |
| Perchloric Acid Hood |  | Y N |
| Glovebox |  | Y N |
| Ventilated Workstations(s) |  | Y N |
| Balance Enclosure(s) |  | Y N |

|  |  |  |
| --- | --- | --- |
| **Biological Safety Cabinet(s)** |  | Y N |

|  |  |  |
| --- | --- | --- |
| **Physical Hazards** | **Note** | **Present in Lab** |
| Cryogenic Equipment (liquid nitrogen, sub-zero freezers, etc.) |  | Y N |
| Drying Ovens |  | Y N |
| Heating Apparatus |  | Y N |
| Autoclaves |  | Y N |
| Industrial Equipment posing a physical hazard |  | Y N |
| High Risk Electrical (<25 milliamperes exposure) |  | Y N |
| Solvent Still(s) |  | Y N |
| Distillation Equipment |  | Y N |
| Centrifuge, (high- or ultra- speed) |  | Y N |
| Other Physical Hazards: (Please identify) |  | **----------** |

***Laboratory Chemical Hazards***

Identify the chemicals present (or anticipated to be present) in the lab. Some items will require authorization/additional information before purchase and use. EHS will work with each lab to identify these items and to complete the specific requirements.

|  |  |
| --- | --- |
| **Chemical** | **Present in Lab** |
| Flammable / Combustible Liquids | Y N |
| Flammable Solids | Y N |
| Air Reactive Solids | Y N |
| Water Reactive Solids | Y N |
| Oxidizers | Y N |
| Organic Peroxides | Y N |
|  |  |
| Compressed Gas: | **----------** |
| Flammable | Y N |
| Corrosive | Y N |
| Inert | Y N |
| Oxidizing | Y N |
| Poisonous | Y N |
| Reactive | Y N |
| Hydrogen | Y N |
| Chlorine | Y N |
| Fluorine | Y N |
|  |  |
| Corrosive Compounds (Liquids) | Y N |
| Corrosive Compounds (Solids) | Y N |
| Hydrofluoric Acid | Y N |
| Perchloric Acid. (< 70% Concentration) | Y N |
| Perchloric Acid. (≥ 70% Concentration) | Y N |
|  |  |
| Mutagens | Y N |
| Terotogens | Y N |
| Carcinogens | Y N |
| Mercury, elemental (not contained in devices) | Y N |
| Mercury Containing Devices (thermometers, barometers, etc.) | Y N |
|  |  |
| Highly Toxic Chemicals  (LD50-oral < 50 mg/Kg; LD50-skin <200 mg/Kg; LC50-inh <200 ppm or < 2mg/l)  *Use Material Safety Data Sheet Toxicology results. (Example: Sodium Azide)* | Y N |

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| --- | --- | --- |
| **Regulated Chemicals**  Reference Lab Safety Manual Part II. Appendices 8.2.6.2 – 8.2.8.3 | | **Present in Lab** |
| Peroxide Forming Chemicals | 8.2.6.2 | Y N |
| Potentially Explosive Compounds | 8.2.7.1 | Y N |
| ATF/DOT Identified Explosives | 8.2.7.2 | Y N |
| OSHA Listed Carcinogens | 8.2.8.1 | Y N |
| OSHA Regulated Substances *(Example: Benzene)* | 8.2.8.1 | Y N |
| National Toxicology Report (NTP) Carcinogens | 8.2.8.2 | Y N |
| International Agency for Research on Cancer (IARC) Listed Carcinogens | 8.2.8.3 | Y N |

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| --- | --- | --- |
| **DEA Controlled Substances:** | **(**Do not identify here. Contact EHS directly.) | Y N |

***Biological Hazards***

Identify the biological materials present (or anticipated to be present) in the lab. Some items will require authorization/additional information before purchase and use. EHS will work with the lab to identify these items and to complete the specific requirements.

|  |  |
| --- | --- |
| **Material** | **Present in Lab** |
| CDC / USDA Select Agents | Y N |
| Bacterial Agents | Y N |
| Fungal Agents | Y N |
| Parasitic Agents | Y N |
| Rickettsial Agents | Y N |
| Viral Agents | Y N |
| Toxins | Y N |
| Bloodborne Pathogens *(HIV, HBV, Tuberculosis)* | Y N |
| Human blood, tissues, fluids, or cells | Y N |
| Animal blood, tissues, fluids, or cells | Y N |
| Recombinant DNA | Y N |
| Other Biological Hazards:  If yes, please identify. (May contact EHS directly.) |  |

***Ionizing, Non-Ionizing Radiation & Laser Hazards***

Identify the radiation generating materials present (or anticipated to be present) in the lab. Some items will require authorization/additional information before purchase and use. EHS will work with the lab to identify these items and to complete the specific requirements.

|  |  |
| --- | --- |
| **Sources / Devices** | **Present in Lab** |
| **Ionizing:** |  |
| Static Eliminators | Y N |
| Electron Capture Detectors (ECD) Gas Chromatograph | Y N |
| Liquid Scintillation Counters | Y N |
| Moisture / Density Gauges | Y N |
| Radioactive materials (unsealed sources) | Y N |
| Sealed sources / Check Sources | Y N |
| Geological / Specimen Samples (uranium, thorium) | Y N |
| Electron Microscope Mounting (uranyl compounds) | Y N |
| X-ray Units, X-ray Diffraction | Y N |
| Electron Microscope | Y N |
| Electron Beam Devices | Y N |
| **Non-Ionizing:** | **----------** |
| UV – transilluminators | Y N |
| Visible – Black Body | Y N |
| IR (molten material, furnace emissions, etc.) | Y N |
| Microwave (transmitters, drying equipment, etc.) | Y N |
| RF (induction heating, backside metallization, etc.) | Y N |
| Magnetic Sources Above 0.2T (NMR / EPR / FRI) | Y N |
| **Laser\Laser Systems:** | **----------** |
| Laser Class 3a, 3b, or 4 | Y N |
| Laser Device, (other) | Y N |
|  |  |
| Other Radiation Hazards:  If yes, please identify. (May contact EHS directly.) |  |