
Identify the general hazards (check all that apply). Perform background research to identify known risks of the reagents, reactions, or processes. Review protocols, Safety Data Sheets (SDSs), and safety information for hazardous chemicals, agents, or processes. Review accident histories within your laboratory/department.

Hazardous Agents

Physical Hazards of Chemicals

- ☐ Compressed gases
- ☐ Cryogenics
- ☐ Explosives
- ☐ Flammables
- ☐ Organic peroxides
- ☐ Oxidizers
- ☐ Peroxide formers
- ☐ Pyrophorics
- ☐ Self-heating substances
- ☐ Self-reactive substances
- ☐ Substances which, in contact with water, emit flammable or toxic gases

Health Hazards of Chemicals

- ☐ Acute toxicity
- ☐ Carcinogens
- ☐ Eye damage/irritation
- ☐ Germ cell mutagens
- ☐ Nanomaterials
- ☐ Reproductive toxins
- ☐ Respiratory or skin sensitization
- ☐ Simple asphyxiant
- ☐ Skin corrosion/irritation
- ☐ Specific target organ toxicity
- ☐ Hazards not otherwise classified

Ionizing Radiation

- ☐ Irradiator
- ☐ Radionuclide
- ☐ Radionuclide sealed source
- ☐ X-ray machine

Non-Ionizing Radiation

- ☐ Lasers, Class 3 or 4
- ☐ Lasers, Class 2
- ☐ Magnetic fields (e.g., NMR, MRI)
- ☐ RF/microwaves
- ☐ UV lamps

Biohazards

- ☐ BSL-2 Biological agents
- ☐ BSL-3 Biological agents
- ☐ Human cells/blood/BBP
- ☐ NHPs/cells/blood
- ☐ Non-exempt rDNA
- ☐ Animal work
- ☐ High risk animals (RC1)
- ☐ Other (list):

Hazardous Conditions or Processes

Reaction Hazards

- ☐ Explosive
- ☐ Exothermic, with potential for fire, excessive heat, or runaway reaction
- ☐ Endothermic, with potential for freezing solvents decreased solubility or heterogeneous mixtures
- ☐ Gases produced
- ☐ Hazardous reaction intermediates/products
- ☐ Hazardous side reactions

Hazardous Processes

- ☐ Generation of air contaminants (gases, aerosols, or particulates)
- ☐ Heating chemicals
- ☐ Large mass or volume
- ☐ Pressure > atmospheric
- ☐ Pressure < atmospheric
- ☐ Scale-up of reaction

Other Hazards

- ☐ Hand/power tools
- ☐ Moving equipment/parts
- ☐ Electrical
- ☐ Noise > 80 dBA
- ☐ Heat/hot surfaces
- ☐ Ergonomic hazards
- ☐ Needles/sharps
- ☐ Pressurized systems
- ☐ Other (list):

STEP 2: IDENTIFYING PROTOCOLS REQUIRING A LAB SAFETY SOP

List the protocols below that include specific hazards based on either chemical or physical hazard(s) and require specific measures to control the hazards.

Hazard(s)	SOP Required (Y/N)	SOP # or Description	If No SOP, are hazards addressed by Stevens Chemical Hygiene Plan (CHP)