

PPE SELECTION GUIDE BY TASK OR ACTIVITY

This document recommends the minimum Personal Protective Equipment (PPE) for each task or activity. Your department and/or Principal Investigator (PI) may have other PPE requirements that are in place. Discuss those requirements prior to starting the task or activity.

	If Your Task / Activity Involves:	Use the Following PPE:
Chemicals	Solids of low or moderate toxicity	<ul style="list-style-type: none"> • Disposable gloves
	Minimal amounts of liquids (less than 0.1 Liters) with acute or chronic toxicity	<ul style="list-style-type: none"> • Safety glasses or goggles* • Appropriate chemical-resistant gloves • Clothing covering to knees
	More than minimal amounts of liquids with acute or chronic toxicity (pure chemicals, mixtures or solutions)	<ul style="list-style-type: none"> • Safety glasses or goggles* • Appropriate chemical-resistant gloves • Lab coat • Acid-resistant apron if more than 4 Liters of highly corrosive chemicals used • Consider flame-resistant (e.g., Nome®), lab coat if more than 4 Liters of flammable liquids used
	Cryogenic liquids	<ul style="list-style-type: none"> • Safety glasses or goggles* • Face shield required if handling cryovials stored in liquid phase • Insulated cryogenic gloves • Lab coat recommended
	Potentially-explosive compounds	<ul style="list-style-type: none"> • Safety goggles* • Face shield • Heavy weight gloves • Nome® or equivalent fire-resistant lab coat
	Pyrophoric (air-reactive) solids or liquids	<ul style="list-style-type: none"> • Safety glasses or goggles* • Face shield recommended • Nome® or equivalent fire-resistant gloves • Appropriate chemical resistant gloves • Nome® or equivalent fire-resistant lab coat
	Particularly hazardous substances including carcinogens, reproductive toxins, and reagents of high acute toxicity	<ul style="list-style-type: none"> • Safety glasses or goggles* • Appropriate chemical resistant gloves • Respirators as needed

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	If Your Task / Activity Involves:	Use the Following PPE:
Biological Materials	BL1 microorganisms or viruses	<ul style="list-style-type: none"> • Biological Safety Cabinet • Disposable gloves
	BL2 microorganisms, viruses, viral vectors, human materials, or Old World primate materials	<ul style="list-style-type: none"> • Biological Safety Cabinet • Disposable gloves • Lab coat
	Procedures outside of the Biosafety Cabinet without splatter guard when splashes or sprays are anticipated	<ul style="list-style-type: none"> • Safety glasses or goggles* • Disposable gloves • Lab coat
Radiation	Unsealed radioactive materials or waste	<ul style="list-style-type: none"> • Safety glasses if there is a splash potential or if 10 milliCuries or more of ³²P is used* • Nitrile or other appropriate gloves • Lab coat
	Laser(s) modified by optics	<ul style="list-style-type: none"> • Appropriate eye protection
	Open ultraviolet light source <ul style="list-style-type: none"> — And if face enters UV beam — And if hand enters UV beam — And if body enters UV beam 	<ul style="list-style-type: none"> • Safety glasses or goggles with UV protection* <ul style="list-style-type: none"> — UV face shield — Gloves — Lab coat
	Infrared-emitting equipment	<ul style="list-style-type: none"> • Appropriately-shaded goggles* • Lab coat
Other Hazards	Handling hot surfaces and objects such as autoclaved materials and heated glassware	<ul style="list-style-type: none"> • Heat-resistant gloves • Lab coat
	Glassware under pressure or vacuum	<ul style="list-style-type: none"> • Safety glasses or goggles* • Face shield recommended • Lab coat
	Cutting and connecting glass tubing	<ul style="list-style-type: none"> • Safety glasses or goggles* • Cut-resistant gloves
	Sonicator or other loud equipment	<ul style="list-style-type: none"> • Ear plugs or ear muffs

NOTE: Closed-toe shoes that cover the entire foot must be worn when working in a laboratory.

The Chemistry Department has mandated that long pants must be worn when working in a laboratory (teaching and research).

* The Chemistry Department has mandated that safety goggles shall be worn at all times within both teaching and research laboratories.