

Principal Investigator: _____




Date Approved: _____

This document covers basic chemical safety information for oxidizers. The use of any oxidizing chemical is subject to pre-approval by the Principal Investigator (PI) and/or Supervisor. PI and/or Supervisor may use the sheet attached to this SOP to document any lab specific training for Oxidizers. **DO NOT USE OXIDIZERS UNTIL YOU HAVE OBTAINED THE NECESSARY PRE-APPROVAL.**

Oxidizers

Oxidizing chemicals are liquid or solid materials that promote combustion. They may spontaneously give off oxygen at room temperature or with slight heating. Strong oxidizers are capable of forming explosive mixtures when mixed with combustible, organic or easily oxidized materials.



Personal Protective Equipment & Personnel Monitoring		
 Lab Coat	 Gloves	 Eye Protection
Flame resistant lab coat	Neoprene or butyl rubber gloves typically provide adequate protection against minor splashes. Consult with your PI or supervisor to determine whether any materials involved in your process require alternative hand protection.	ANSI Z87.1-compliant safety glasses or safety goggles if a splash hazard is present.

Labeling & Storage

Store in secondary containment away from organics, flammables, reducing agents, and any other materials that may be chemically incompatible. **DO NOT** store oxidizers in untreated wooden cabinets. Primary containers should be labeled according to the UNC Charlotte Chemical Hygiene Plan. The secondary container's label must contain the chemical name and corresponding hazards. Also, if not plainly visible (e.g. through a cabinet window), labelling must be applied to storage locations where these are stored to avoid an inadvertent encounter.

Engineering Controls, Equipment & Materials

Fume Hood

At a minimum, adequate general laboratory ventilation must be provided to maintain exposure below any regulatory limits.

Housekeeping

Spills

Notify others in the area of the spill, including your supervisor. Evacuate the location where the spill occurred. Call 911 from any campus phone (or 704-687-2200 from a cell phone). Report

any exposure to EHS at 704-687-1111. Remain on-site (at a safe distance) to provide detailed information to first responders.

Decontamination

Decontamination methods will vary based on the materials handled and equipment being used. Please review the chemical Safety Data Sheet for guidance on cleaning materials.

Waste

Segregate from flammable or combustible waste streams. Refer to the UNC Charlotte Chemical Hygiene Plan for details.

First Aid & Emergencies

Skin or Eye Contact

Remove contaminated clothing and accessories; flush affected area with water. If symptoms persist, get medical attention.

Inhalation

Move person into fresh air. If symptoms persist, get medical attention.

Ingestion

Rinse mouth with water. If symptoms persist, get medical attention.

Name	Signature	Date