

Principal Investigator: _____

Date Approved: _____

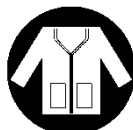
This Chemical Safety Protocol (CSP) covers basic chemical safety information for oxidizers and supplements the laboratory Chemical Hygiene Plan as appropriate. Additional lab-specific safety operating procedures for oxidizers may also be required. The use of oxidizers is subject to pre-approval by the Principal Investigator (PI) and/or the designated Laboratory Responsible Safety Person. DO NOT USE OXIDIZERS UNTIL YOU HAVE OBTAINED THE NECESSARY PRE-APPROVAL AND TRAINING.

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**

Flame resistant lab coat

**Gloves**

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.

**Eye 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. 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

Releases

Immediately notify others in the area of the release and evacuate the location where the release occurred. Notify your PI/Responsible Safety Person and call Vanderbilt University Public Safety (VUPS) at 615-421-1911 or use the Vandysafe app on your smart phone. Report any exposure through Risk and Insurance Management's Origami portal and mark that it occurred in research when prompted. Both VUPS and the Origami system will notify EHS of the incident. 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 Refer to the laboratory *Chemical Hygiene Plan* (Section 6.7) for information on proper chemical waste disposal procedures.

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.

