

Principal Investigator: Date Approved:

This document covers basic chemical safety information for acutely toxic oxidizing corrosives and supplements the laboratory Chemical Hygiene Plan as appropriate. The use of any acutely toxic oxidizing corrosive chemical is subject to pre-approval by the Principal Investigator (PI) and/or designated Laboratory Responsible Safety Person. DO NOT USE ACUTELY TOXIC OXIDIZING CORROSIVES UNTIL YOU HAVE OBTAINED THE NECESSARY PRE-APPROVAL.

Acutely Toxic Oxidizing Corrosives

Acutely toxic oxidizing corrosives are materials that can be fatal in small doses, can contribute to combustion by acting as an oxygen source, and can also cause destruction of exposed tissues. An example of this type of substance is **sodium chlorite**.



For more information on each individual hazard type, please refer to the respective 'single hazard' CSP.

Personal Protective Equipment & Personnel Monitoring



Flame-resistant lab coat. A chemical-resistant lab apron should be used when handling large quantities.



Nitrile or neoprene 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. Consult glove selection chart for heavy handling of corrosives.



Face Shield

ANSI Z87.1-compliant safety glasses or safety goggles, or face shield if a splash hazard is present.

Do not wear latex gloves.

Labeling & Storage

Store upright & tightly closed in a secondary container located in a dry and well-ventilated place. Keep away from organic materials, flammables, reducing agents, and any other incompatible chemicals. **Do not** store in wooden or metal cabinets. Each container's label must include appropriate pictograms and identify the material as both acutely toxic and corrosive. Always store corrosives in chemically-resistant secondary containers (e.g., polypropylene trays or tubs) below eye level. The secondary container's label must include appropriate pictograms and identify the material as both acutely toxic and corrosive. Also, if not plainly visible (e.g., through a cabinet window), labeling must be applied to storage locations where these are stored to avoid an inadvertent encounter.

Engineering Controls, Equipment & Materials

Fume Hood

It is advisable to use a fume hood when working with materials which are toxic by inhalation. If your protocol does not permit the handling of such materials in a fume hood, contact the Department of Environmental Health, Safety and Sustainability (EHSS) to determine whether additional respiratory protection is warranted.

Housekeeping			
Spills	Notify others in the area of the spill, including your PI/Responsible Safety Person. If it is a small spill that you can easily handle, use the contents of your lab spill kit to clean it up. If it is a large spill, then evacuate the area where the spill occurred. 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 EHSS 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 SDS for guidance on cleaning materials.		
Waste	Refer to the laboratory <i>Chemical Hygiene Plan</i> (Section 6.7) for information on proper chemical waste disposal procedures.		
First Aid & Emergencies			
Skin Contact	Immediately remove contaminated clothing and shoes; flush skin with water for at least 15 minutes. Get medical attention immediately.		
Eye Contact	Check for and remove contact lenses. Immediately flush eyes with water for at least 15 minutes. Get medical attention immediately.		
Inhalation	Move person into fresh air. Get medical attention immediately.		
Ingestion	Get medical attention immediately.		

Name	Signature	Date