

Principal Investigator: \_\_\_\_\_

Date Approved: \_\_\_\_\_

This document covers basic chemical safety information for carcinogens and reproductive toxicants. The use of any carcinogen or reproductive toxicant 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 Carcinogens and Reproductive Toxicants. **DO NOT USE CARCINOGENS OR REPRODUCTIVE TOXICANTS UNTIL YOU HAVE OBTAINED THE NECESSARY PRE-APPROVAL.**

## Carcinogens and Reproductive Toxicants




**Carcinogens** are materials that have the potential to cause cancer.

**Reproductive toxicants** are materials that have the potential to interfere with fertility, fetal development, and/or lactation.



**Mutagens** are materials which can cause genetic mutations. Such mutations can often lead to cancer or reproductive toxicity.

Please note that the use of listed carcinogens, halogenated liquids, ethidium bromide, and formaldehyde is not covered by this general SOP.

Personal Protective Equipment & Personnel Monitoring		
 <b>Lab Coat</b>	 <b>Gloves</b>	 <b>Eye Protection</b>
Traditional lab coat or flame-resistant lab coat when working with flammable materials.	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.	ANSI Z87.1-compliant safety glasses or safety goggles if a splash hazard is present.

## Labeling & Storage

Store away from other materials that are not particularly hazardous or which may be chemically incompatible. 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. Containers of these materials must be stored in leak-proof secondary containment within a designated area. 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 these materials. If your protocol does not permit the handling of such materials in a fume hood, contact EHS to determine whether additional respiratory protection is warranted.

## **Housekeeping**

### ***Spills***

Treat all spills of these materials as a major spill. 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***

Refer to the UNC Charlotte [Chemical Hygiene Plan](#) for details. Please note that some reproductive toxicant, carcinogen, and mutagens waste may be considered 'acutely hazardous'.

## **First Aid & Emergencies**

### ***Skin Contact 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.

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Name	Signature	Date