

Facilities Management Environmental Health and Safety

Principal Investigator: Date Approved:

This document covers basic chemical safety information for carcinogens. The use of any carcinogen is subject to pre-approval by the Toxic Substance Committee. DO NOT USE CARCINOGENS UNTIL YOU HAVE OBTAINED THE NECESSARY APPROVAL.

Carcinogens

Refer to the University of Arkansas Chemical Hygiene Plan for a description of chemicals that will be considered as a Particularly Hazardous Substance (PHS) carcinogen.

Chemicals that meet the definition of a PHS carcinogen must be used only in a designated area where limited access, special procedures, knowledge, and work skills are required. A designated area can be the entire laboratory, a specific laboratory workbench, or a laboratory hood. Designated areas must be clearly marked with signs that identify the chemical hazard and include an appropriate warning; for example: WARNING! CARCINOGEN WORK AREA



Exposure, Signs and Symptoms and Chemical Properties

Review the appropriate sections of the chemical specific Safety Data Sheet (SDS) for information on ways to detect exposure, appropriate exposure limits, signs and symptoms of exposures and chemical properties. If data is lacking in any area, refer to the following sites for additional information:

https://pubchem.ncbi.nlm.nih.gov/ https://druginfo.nlm.nih.gov/drugportal/

https://toxnet.nlm.nih.gov/index.html http://web.doh.state.nj.us/rtkhsfs/indexfs.aspx

Always use the smallest amount of chemical that is consistent with the requirements of the work performed. Understand the chemical properties and what are the likely routes of exposure based on those properties and the procedures to be performed. Use containment devices (e.g., fume hood, glove box) when substance can volatilize, when the substance is manipulated, whenever aerosols or particulates may be produced, or when an action may result in an uncontrolled release.

Contact Environmental Health and Safety (EHS) if there are any questions (479-575-5448).

Personal Protective Equipment (PPE) & Personnel Monitoring



Chemical/Flame resistant



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 chemically incompatible. Each container's label must include an appropriate pictogram and identify the material as a carcinogen. Containers of these materials must be stored in leak-proof secondary containment within a Designated Area. The secondary container's label must include an appropriate pictogram and identify the material as a carcinogen. 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

Г	Hood
FIIME	

Use a fume hood (or equivalent) to keep exposure to materials as low as possible. If your protocol does not permit the handing of such materials in a fume hood, contact EH&S (479-575-5448) to perform an exposure assessment to determine whether alternative engineering controls or additional respiratory protection is required.

Housekeeping		
Spills	Notify others in the area of the spill, including your supervisor. Evacuate the location where the spill occurred. Call 911 and report any exposure to EHS (479-575-5448). Remain on-site (at a safe distance) to provide detailed information to first responders.	
Decontamination	After each use (or day), wipe down the immediate work area and equipment to prevent accumulation of chemical residue. Decontaminate workspace with appropriate materials (refer to the SDS). When finished wash hands and arms with soap and water and properly dispose of all wastes. Contaminated items (e.g., solid and liquid materials and PPE) should be discarded as hazardous waste.	
Waste	Refer to the UA Chemical Hygiene Plan for details and contact EHS (479-575-5448) for specific disposal instructions.	

First Aid & Emergencies

Skin or Eye Contact

Remove contaminated clothing and accessories; flush affected area for at least 15 minutes with water. If symptoms persist, get medical attention/call 911.

Ingestion

Rinse mouth with water. If symptoms persist, get medical attention/call 911.

Attachments: Chemical Specific Safety Data Sheet (SDS)

Note: If there is more than one chemical that classifies as a PHS based on carcinogenicity; include all appropriate SDSs with this SOP.

Authorized and Trained Personal		
Name	Signature	Date