

FACT SHEET: Chemical Spill Kit

Essential Items and Materials



A chemical spill kit is required at all Tulane research labs that use or store hazardous materials. All laboratory personnel must know: (a) how to properly use the spill kit, (b) the spill kit storage location, and (c) when to evacuate the lab (large spills beyond the kit's capacity) and call TUPD/OEHS. Post signage marking the location of the spill kit if not conspicuous (e.g., in a storage cabinet).

Supplies for home-made spill kits (e.g., spill clean-up equipment, absorbent material, and PPE) are illustrated below; commercial ready-made kits are available through Tulane-approved vendors. Ensure the spill kit is well-stocked and items are replaced as they become depleted. Include chemical-specific SOPs and the Hazardous Waste Disposal Fact Sheet. Refer to the [Spill Response and Clean-Up Flow Chart](#) for more information.

UNIVERSAL AND CHEMICAL-SPECIFIC ABSORBENTS:



Chemical absorbent pillows and socks



Solvent absorbents (e.g. Floor-Dry™, Oil-Dri)



Universal absorbent: vermiculite



Universal absorbent: sand or clay



Universal chemical absorbent pads



Alkali neutralizer (sodium bisulfate)



Acid neutralizer (e.g. NaHCO₃, Na₂CO₃, CaCO₃)



Acid absorbents (e.g. Oil-Dri, Zorb-All)



Bromine absorbent: sodium thiosulfate



Red-Z biohazard spill absorbent

CLEAN-UP MATERIALS AND ITEMS:



High Density Polyethylene (HDPE) 5-gal bucket/lid



Chemical-resistant brush/dust pan/scoop



Polyethylene disposal bags ≥ 4 mm thick



Hazmat bags (labeled as bio, chem, or rad)



Caution tape



Hazardous waste labels (request via OEHS)



Roll of duct tape (1.5" wide suggested)



pH paper roll or strips – acidity/alkaline



HF spill kit – required for labs that use or store HF*

*Laboratories that use or store hydrofluoric acid (HF) must have ready access to a dedicated spill kit. See Hydrogen Fluoride Fact Sheet for more information.

FACT SHEET: Chemical Spill Kit, cont.

Essential Items and Materials

PERSONAL PROTECTIVE EQUIPMENT

FACE PROTECTION: Inspect eyewear frequently. DO NOT use eyewear that is damaged; replace as needed.



For general use and projectile protection

Safety glasses



Use for splash hazards and corrosives

Splash goggles



Must wear safety glasses or splash goggles with face shield

Face shield

HAND PROTECTION: DO NOT reuse single-use gloves. Inspect reusable gloves frequently. DO NOT use thick gloves that are damaged; replace as needed.



Nitrile gloves (disposable)



Chemical-compatible gloves (disposable)



Thick, reusable nitrile gloves



Thick, reusable neoprene gloves



Thick, reusable butyl gloves

BODY PROTECTION: Inspect lab coats regularly. Launder or replace heavily soiled or damaged lab coats and/or footwear.



Flame-resistant Nomex lab coat



Flame-resistant treated cotton lab coat



Standard cotton lab coat



Tyvek booties (disposable)



Closed-toe, closed-heel non-permeable footwear

MORE INFO:



OTHER ITEMS:



Hydrofluoric acid calcium gluconate gel



Permanent ink markers/pens

ADDITIONAL RESOURCES:

- SpillFix: [Spill Kit Content List and Requirements](#)
- ACS: [Guide for Chemical Spill Response](#)
- ITU AbsorbTech: [OSHA Oil Spill Kit Requirements](#)