

GuideSheet

Chemical Spill Kit

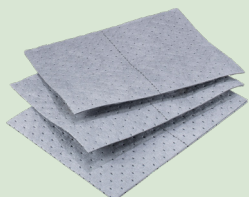
A chemical spill kit is required at all USC research labs that use or store hazardous materials. All laboratory personnel must know: (a) how to properly use the spill kit, (b) the spill kit storage location, and (c) when to evacuate the lab (large spills beyond the kit's capacity) and call DPS/EH&S. 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 USC-approved vendors. Ensure the spill kit is well-stocked and items are replaced as they become depleted. Include chemical-specific SOPs, the [Chemical Spill Notification flyer](#), and the [Hazardous Waste Disposal Fact Sheet](#). Refer to the [Spill Response and Clean-Up](#) web page for more information.

ABSORBENTS - UNIVERSAL & CHEMICAL-SPECIFIC*



Chemical absorbent pillows and socks



Universal chemical absorbent pads



Universal absorbent - vermiculite



Universal absorbent - sand or clay



Solvent absorbents (Floor-Dry™, Oil-Dri)



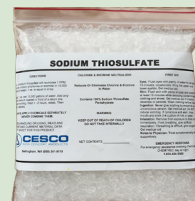
Alkali neutralizer (sodium bisulfate)



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



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



Bromine absorbent (sodium thiosulfate)



Red-Z biohazard spill absorbent

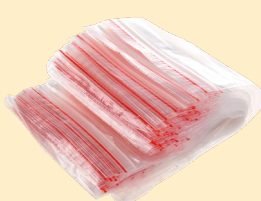
CLEAN-UP MATERIALS AND ITEMS



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



Chemical-resistant brush/dust pan/scoop



Polyethylene Disposal Bags ≥ 4 mm thick



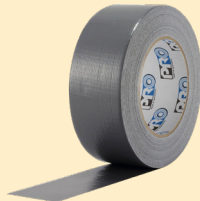
Hazmat Bags (labeled as bio, chem, or rad)



Caution tape



Haz waste labels ([request via EHSA](#))



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



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PERSONAL PROTECTIVE EQUIPMENT

Face Protection: Inspect eyewear frequently. DO NOT use eyewear that is damaged; replace as needed.



For general use, projectile protection



Use for splash hazards, corrosives



Must wear splash goggles or safety glasses with face shield

Safety glasses

Splash goggles

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 lab coat
Flame-resistant treated cotton



Standard cotton lab coat



Tyvek booties - disposable



Closed-toe, closed-heel non-permeable footwear

OTHER ITEMS



Hydrofluoric Acid - calcium gluconate gel

Indelible ink markers/ pens

ADDITIONAL INFORMATION

- Laboratories storing or using hydrofluoric acid must have ready access to a dedicated HF spill kit, see [Hydrogen Fluoride Safety Fact Sheet](#) for details.
- Absorbent, Clean-Up, and PPE items are available through USC-approved vendors: [VWR](#) and [Grainger](#).
- Lab coats are available for purchase through: Medico and [VWR](#). Go to the [Purchase a New Lab Coat](#) web page for more information.
- Contact labsafety@usc.edu if there are questions or concerns.

