



Complicated chemical spill

Call 911

Simple chemical spill

Clean yourself



1. Evacuate the affected area If possible
2. Close doors and windows as you evacuate the area
3. Call 911:
 - Injuries?
 - Location?
 - Name of the chemical spilled
 - Quantity of the chemical spilled
 - Any fire or explosions related to the spill
 - Your name and phone number
4. Arrange for someone to meet the emergency responders.
5. Contact DRS at 217-333-2755
6. Cordon off the area if it is safe for you to do so
7. Be available to provide information to first responders if you do not need medical attention.





<https://www.ehs.iastate.edu/sites/default/files/uploads/publications/factsheets/spillcleanup.pdf>

Specific spills

Flammable liquids

- Do NOT use paper towels
- Do NOT leave absorbent materials in a fume hood to evaporate the solvent

Acids

- **Solid** NaHCO₃
- Neutralization can be vigorous!

Hydrofluoric acid

- **Solid** CaCO₃

Acid chlorides

- **Solid** NaHCO₃
- Avoid introduction of water!

Bromine

- $2 \text{Na}_2\text{S}_2\text{O}_3 + \text{Br}_2 \rightarrow \text{Na}_2\text{S}_4\text{O}_6 + 2 \text{NaBr}$
- $3 \text{Na}_2\text{CO}_3 + 3 \text{Br}_2 \rightarrow \text{NaBrO}_3 + 5 \text{NaBr} + 3 \text{CO}_2\uparrow$
- $6 \text{NaOH} + 3 \text{Br}_2 \rightarrow \text{NaBrO}_3 + 5 \text{NaBr} + 3 \text{H}_2\text{O}$
- $6 \text{Ca(OH)}_2 + 6 \text{Br}_2 \rightarrow \text{Ca(BrO}_3)_2 + 5 \text{CaBr}_2 + 6 \text{H}_2\text{O}$
- $8 \text{NH}_4\text{OH} + 3 \text{Br}_2 \rightarrow 6 \text{NH}_4\text{Br} + 8 \text{H}_2\text{O} + \text{N}_2\uparrow$

Mercury

- Collect with a pipette into a sealable container (flashlight can help)
- Sprinkle with zinc powder or sulfur (for smaller droplets)
- Do NOT use a broom / shop vacuum

Bases

- **Solid** citric acid or NaHSO₄

<https://www.bromaid.net/section2-guidance-at-the-scene-of-an-incident/>