

Safety Procedures for Leaks in the Microfab Room

If a leak is found in the microfab room or someone reports a leak in the room downstairs, you should follow these procedures:

1. **DO NOT** touch and smell the leak, and treat it as hazardous.
2. Alert the users in the microfab room.
3. Report the leak to the student lab manager and/or the lab director Professor Reza Ghodssi (ghodssi@eng.umd.edu, 301-405-8158).
4. Using pH indicator strips (stored in the drawer labeled “Miscellaneous”) to identify whether the leak is an **ACID (pH <7)**, a **BASE (pH >7)** or a **NEUTRAL liquid (pH=7)**, and inform the users of the nature of the leak.

❖ *If the leak is an ACID or a BASE*

- **DO NOT** breath the vapor or touch the leak
- For **SMALL** leak
 - Locate the source of the leak
 - Use spill kit (located by emergency shower) to clean affected area; if it is a strong acid, apply acid neutralizer first and then clean affected area using the spill kit
 - If the leak comes from a broken container, change the container immediately
 - Leave the microfab room or affected area
 - Contact the Department of Environment Safety (DES) at 301-405-3960 to pick up the waste
- For **Large** leak
 - **DO NOT** attempt to clean up the leak
 - **EVACUATE THE AFFECTED AREA IMMEDIATELY!**
 - Contact DES at 301-405-3960 to report the leak and have them clean it up
 - Wait for the trained cleanup crew to inform them of the location and extent of the leak
 - If the leak comes from a broken container, ask DES to change the container

❖ *If the leak is NOT an ACID or a BASE*

- Locate the source of the leak, and clean the affected area using the mop and/or paper towels
 - If the leak comes from a broken container, change the container immediately
 - If the leak comes from DI water system, report it immediately to Tom Loughran (301-405-3642, tcl@glue.umd.edu)
 - If the leak comes from water manifolds, report it immediately to Jay Renner and/or Shyam Methrotra (301-405-3722); If the leak is severe, report it to Brian Cugle (Room 1210A, J. M. Patterson Building, bcugle@wam.umd.edu, 301-405-1992)
5. Notify Steve Beane, the building manager (301-405-2222), of the leak and ask him to check if the leak has expanded into rooms next to the microfab room or into the room downstairs; if so, follow the corresponding procedures.