Many cleanroom chemicals are potentially dangerous to health and to the environment. The procedures laid down below are intended to allow for the safe disposal of used or expired substances. To ensure your safety and health, as well as the safety and health of other users, always follow these rules for chemical storage and disposal.

1. Store all bottles containing acids, bases, and solvents in their proper, respective storage bins. The same rule holds for waste chemicals, which should be deposited in waste bottles. If in doubt, always check with a more experienced user. A telephone list is located near the phone in the cleanroom. If, after diligent effort, you can not get a question answered, contact T. B. Jones.

   Example #1: Never put aluminum etchant waste bottles in the base waste container.  
   Example #2: Never put organic acids in the acid storage container without affixing the proper label - use the proper labels at all times.

2. Deposit all chemical wastes to appropriate bottles. The only waste mixing allowed involves the chemistry listed below:

   * CHLORINATED solvents ---- for solvent mixtures containing chlorinated solvents, such as chlorobenzene and trichloroethylene.

   * NON-CHLORINATED solvents ---- for solvent mixtures NOT containing chlorinated solvents, such as mixtures of acetone, isopropanol, toluene, hexane, Shipley 1805 or 1827 photoresist, Arch AZ2010 photoresist, hexamethyldisilazane and SU-8 developer.

   **ALL OTHER CHEMICAL WASTE MUST BE DISPOSED OF IN SEPARATE BOTTLES.**

3. If you use up the contents of a bottle, rinse & drain it with water 3 times, dry the outside with a wipe, attach a note "washed - for waste" and put it to the corner.

4. If you find that a waste bottle is full, that is, the level is within 1 inch of the top), check to see that the blue tag attached to the bottle is filled out properly. If not then fill it out immediately. Then, move the waste bottle to the white plastic tube in the furnace room and notify Mikhail Haurylau (haurylau@ece.rochester.edu) who will schedule a pickup.

5. To prepare a new waste container, take an empty bottle of appropriate size. Small bottles are found in the cabinet inside the photolithography room. Usually, gallon-sized empties are also available. Fill out a blue tag completely, attach it to the bottle (found on the shelf between the "dry" and "wet" parts of the cleanroom) and pour in the waste chemical.

   Example: After completing a lithography process, you notice there is not enough room in the waste bottle to accommodate your developer waste. What you should do: (i) Check the blue tag to make sure it is properly filled out, (ii) place this bottle in a visible spot in the hood, (iii) Select a cleaned and properly sized empty bottle, (iv) fill out and attach a new blue tag, (v) pour your
waste into this bottle, (vi) put the bottle in the base waste container. On your way out, (vii) place
the bottle in the white tube out and (viii) drop an e-mail to Mikhail.*

Never store HF acid or HF waste in glass containers!

Your full cooperation is expected. Rule violations can result in revocation of user privileges.

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* … Is this procedure complicated? Maybe it is, but chemical burns and spills are much more complicated.