

PROCEDURE FOR WORKING SAFELY WITH HBr in UCLA NANOLAB

- 1 Only people who have gone through this training may work with HBr in the Nanolab
- 2 This training covers liquid, aqueous HBr (Hydrobromic acid) only; not HBr gas.
- 3 Only the designated fume hood may be used for this work. The fume hood must be working properly as designated by the Magnehelic gauge reading.
- 4 Only 1 person at a time may work at the fume hood while working with HBr..
- 5 No other acids, bases or solvents may be present when working with HBr
- 6 Full face visor, acid resistant gloves and apron must be worn when working with HBr
- 7 HBr MSDS sheet must be read and understood by each user.
- 8 No metal objects may be present when using HBr (eg use teflon tweezers).
- 9 Waste may not be dumped down the drain but must be collected and put in the designated hazardous waste bottle clearly labeled HBr waste.
- 10 HBr must be stored separate from all other chemicals in the designated corrosion-resistant cabinet. The waste must be stored in this same cabinet.
- 11 Stored quantities of HBr must not exceed 4- 500ml bottles. Additionally, every bottle must be clearly labeled as to its contents, its owner and date brought into lab.
- 12 Lab manager must be notified whenever new HBr is brought into the lab.
- 13 If any pungent odor is noticed during processing, cease processing immediately and if possible cover or contain HBr to prevent further fuming. Notify lab management at once.
- 14 Processing details including mixing with other chemicals, heating etc must be submitted for approval prior to processing.
- 15 HF dips may be used concurrently at the sink as long as the beakers are separated from each other
- 16 HBr may NOT be left out at the fume hood. You must be present during the entire etch and must dispose of the waste immediately after finishing the etch.