

SNF 25% TMAH Checklist

Instructions: The requesting labmember and qualified buddy must have [ProM](#) preapproval to use 25% TMAH and must coordinate each etching session in advance, through the ProM. This form must be filled out and signed by the labmember and buddy, and sent to the [ProM](#) when etch is completed.

Labmember Signature: _____ **Buddy Signature:** _____

Date of etch: _____

Acknowledgements:

- ☐ We plan to use 25% TMAH at the WBFlexCorr bench for standard anisotropic silicon etching.
- ☐ We have read about the hazards of working with 25% TMAH and recognize that:
 - ☐ It can be fatal on inhalation or contact with a small area of skin.
 - ☐ It acts rapidly and there is no antidote.
 - ☐ For suspected exposure, we should immediately rinse, then go to the emergency room. We will take the [EH&S Fact Sheet](#) and the [SDS](#) to show to the medical staff.
- ☐ We understand that the role of the Buddy is to observe and ensure the Labmember's actions follow the rules outlined here. The Buddy must be on-site and in the lab to observe chemical transport and pouring. For processing, the Buddy must observe, but may be remote (zoom or Face-time). The responsibility of the Buddy is to verify safety rules are observed and to be ready to act as needed.

Preparation:

- ☐ **You must be trained and qualified** specifically for TMAH processing.
- ☐ **Confirm with SNF staff** that TMAH is available and in-stock (lead time is 6-8 weeks).
- ☐ **Reserve the whole bench** to ensure others are not sharing while you process.
- ☐ **Email the ProM committee** to request TMAH to be placed in the Chemicals Passthrough.

Processing:

- ☐ **Print out the [EH&S Fact Sheet](#) and the [SDS](#)** and keep in a visible place while you work.
- ☐ **Block off the aisle.** Use bollards and chains (stored in the Litho closet next to the safety shower on entry from the gowning room.) If these are in use elsewhere, obtain yellow caution tape (stored at the spill station next to the furnaces in the back) and place across the aisle.
- ☐ **Don full PPE.** Blue apron/chemical gloves/safety glasses/face shield must be used to transport TMAH from the Chemical Passthrough to the WBFlexCorr station using a white cart.
- ☐ **Pour chemical. Wearing full PPE,** all handling and pouring of TMAH is done beyond the red line on the bench. Once poured, return TMAH to the Chemical Passthrough.
- ☐ **Processing. Wear full PPE when working at the bench.** All sample and chemical handling is done beyond the red line.

Cleanup:

- ☐ Wear full PPE. Aspirate waste chemical and fully rinse labware and deck.
- ☐ Return bollards/chains.
- ☐ Disabled the station on badger.
- ☐ Email this completed form to the [ProM](#).