Phosgene Manipulations

Wooley Lab

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Weighing of Hazardous Chemicals

(Triphosgene, Chemotherapeutics, etc.)

- 1) Pre-weigh vial with lid
- 2) In your hood, add the chemical to the vial, seal with lid
- 3) Weigh vial, repeat 2 & 3 until the desired amount of reagent is obtained
- 4) Using diphosgene, all needles must be risened (x20) in a solvent compatible with the reagent and placed into the KOH (aq) solution that should be at your hood
- 5) Reactions must be quenched before opening to the atmosphere

THIS IS FOR THE SAFETY OF YOU AND YOUR LABMATES

IF YOU HAVE AN ACCIDENT OR SPILL EVACUATE THE LAB IMMEDIATELY AND CALL EHS. EHS WILL CLEAN UP THE ACCIDENT/SPILL



Large Scale Phosgene Manipulations (> 2 g)





Small Scale Phosgene Manipulations



Phosgene Detection: Use of Test Strips

5% w/v 4-diphenylamine 5% w/v 4-dimethylaminobenzaldehyde Ethanol

Negative: No phosgene detected



Note: As test strips age they become light yellow/brown, they will still show a significant change to bright yellow upon detection of phosgene.



Positive:

detected

Phosgene