



# U N I V E R S I T Y *of* L O U I S V I L L E

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## **Burns Research Group SOP Procedures for Quenching and Disposing of Drying Agents Sodium / Benzophenone drying pots**

Prepared by Suisheng (Steve) Shang

**Scale:** 1.5 g Na and 2 g benzophenone for 400 mL THF in a 500 mL RBF (Round Bottom Flask)

**Step 1)** In a fume hood, fasten the flask to a ring stand and remove vacuum/N<sub>2</sub> adapter or remove the Teflon plug if you are using a 500 mL vacuum transfer flask..

**Step 2)** Degrease all ground glass joints.

**Step 3)** Place an ice bath around the RBF and stirrer under the bath and RBF.

**Step 4)** Pour toluene (~100 mL ) into RBF and stir for 30 minutes.

**Step 5)** Gradually add isopropanol (~50 mL ) over several hours with stirring and then stir 12 hours.

**Step 6)** After stirring for 12 hours, add methanol dropwise (~50 mL ) over 1.5 hours and stir for an additional 2 hours.

**Step 7)** Add D.I. water dropwise (~50 mL ) over 1.5 hours and stir for an additional 2 hours.

**Step 8)** Once it is clear there is no further reaction... Dispose of the quenched mixture into the nonhalogenated waste container.