

Safety Moment



Organic Azides

- Potentially sensitive to violent decomposition from pressure, heat, light, and friction.

Carbon to Nitrogen ratio:

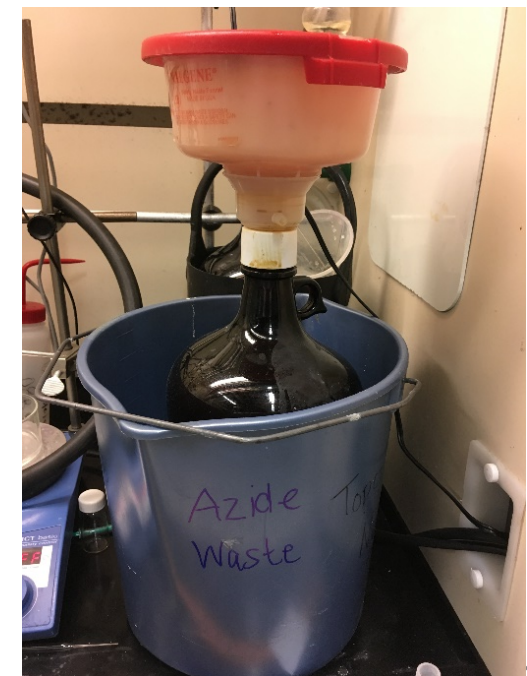
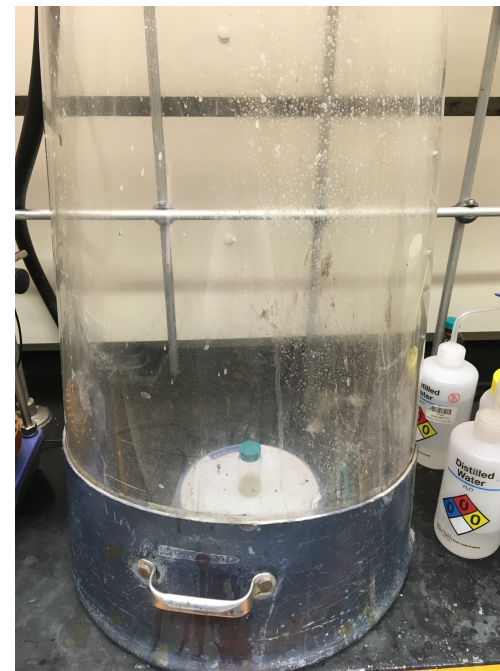
- At least 3:1 C:N (azides have 3 nitrogens, so need at least 9 carbons)

Handling:

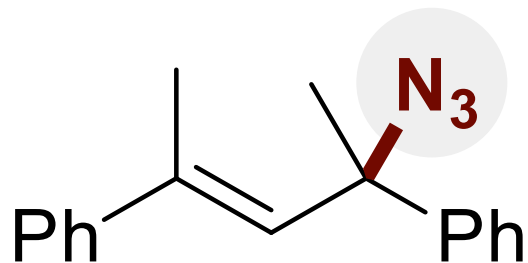
- Small scale
- Appropriate PPE
- Use safety shield
- Avoid halogenated solvents with N_3^-
- Avoid acidic reagents

Waste/Disposal:

- Separate waste container
- No Acid
- Contains mild reducing agent (e.g. PPh_3)



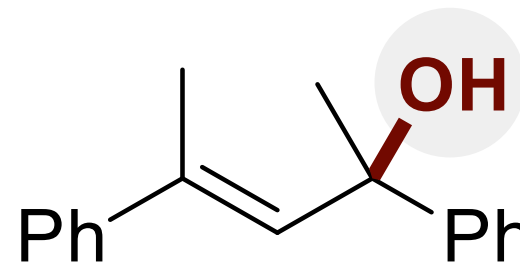
TGA and DSC



TGA 5% mass loss at 152 °C

DSC from -75 °C to 115 °C

No Decomposition Observed



TGA 5% mass loss at 149 °C