

Hazard	No?	Yes?	EXPERIENCED (>2ND YEAR)	LIMITED EXPERIENCE (2ND YEAR)	NO EXPERIENCE (1ST YEAR)
NEW EQUIPMENT SETUP OR CHEMISTRY			think twice	talk to labmate	talk to labmate
FLAMMABLE GASES			think twice	talk to labmate	talk to Advisor
TOXIC/CORROSIVE GASES			think twice	talk to labmate	talk to Advisor
EQUIPMENT UNDER PRESSURE/VACUUM, EVOLVING GAS			think twice	talk to labmate	talk to Advisor
HIGH OR LOW TEMPERATURE REACTION (<-30 oC or >80 oC)			think twice	talk to labmate-1	talk to labmate-2
FLAMMABLE LIQUIDS VOLUME >50 mL			think twice	talk to labmate	talk to labmate
FLAMMABLE LIQUIDS VOLUME >500 mL			talk to labmate	talk to Advisor	talk to Advisor
PYROPHORIC REAGENT (inside glovebox only)			think twice	talk to labmate	talk to labmate
PYROPHORIC REAGENT (<5 ml)			talk to labmate	talk to Advisor	talk to Advisor
PYROPHORIC REAGENT (>5 ml)			talk to Advisor	talk to Advisor	talk to Advisor
FLAMMABLE SOLIDS (inside glovebox only)			think twice	talk to labmate	talk to labmate
FLAMMABLE SOLIDS			talk to labmate	talk to Advisor	talk to Advisor
TOXIC REAGENT (e.g., neurotoxin, release CN)			talk to labmate	talk to Advisor	talk to Advisor
EXPLOSIVE REAGENT			talk to labmate	talk to Advisor	talk to Advisor
AIR OR WATER REACTIVE REAGENT			think twice	talk to labmate	talk to labmate
STRONG OXIDIZING/REDUCING REAGENT			think twice	talk to labmate	talk to Advisor

**\*\*NOTE: Consult SOP for setup, handling, spill cleanup and waste disposal for all new chemicals**

1-Exotherm, gas evolution and/or temperature easily controlled via cooling, venting or process volume

2-Explosive compounds, unstable at work-up temperature, long induction period, highly exothermic, long reflux period with ease of reaction control unknown