SCS Laboratory Safety Training Check List

 $\underline{\textbf{PRIOR}}$ to beginning any laboratory research and/or upon assignment to a research group you must do each of the following:

•	Pass the School of Chemical Sciences Safety Exam after studying the School of Chemical Sciences Chemical Hygiene Plan. A 650/700 is required to pass the exam.					
•	The exam can be taken an unlimited number of times. Score:/700					
FAMI item):	LIARIZE yourself with	the location an	d operation of each of	the following i	items (check off each	
0	Nearest Fire Alarm					
0	Other Emergency Alar					
0						
0	Personal protective equipment					
0						
0						
0		emical spill kits	HF spill kits Bioha	zard spill kits e	etc)	
0						
0	Completed the "Laboratory Safety Training Checklist – New Orientation Checklist" found in your group's safety manual.					
	signature indicates that I	have located ar		e operation of the	he items listed above Date	
researc	USS with your research and the Labora Safety Manual (or see a	atory Safety Tra	ining - Reaction Safet	ty Training Rec		
Appro	val to conduct laboratory	research work	in the School of Cher	mical Sciences		
Princip	oal Investigator (PI)		Print Research Gro	oup Name	Date	
GROU	SE FILE COMPLETED UP SAFETY OFFICER (Mail a copy to SCS SA)	OR PI.			AL WITH YOUR	

Laboratory Safety Training – Reaction Safety Training Record

Acknowledgment: Imperial College London, Department of Chemistry

Name:	Research Group:

All experiments must be assessed as being in one of the following four categories:

- **A** This activity **must** be directly supervised.
- **B** The advice and approval of your supervisor must be sought before the task is started.
- C The work involves risks requiring careful attention to the safety related aspects of it. The worker has been trained in the task and has demonstrated competence.
- **D** Tasks in this category carry no undue risks.

Category A covers use of all compounds which present any of the following hazards:

- Carcinogen
- Mutagen or teratogen
- Risk of serious eye damage
- Pyrophoric
- Very highly toxic
- Explosion risk
- Others:
- Others:
- Others:
- Others
- Others:

This will include some of the specific activities shown on the following page, which must therefore be directly supervised. Your PI has the discretion to amend the category for these activities from **A** to **B** or **C** once you are sufficiently trained and have demonstrated competence in them. Where this is the case, your PI must sign and date the appropriate space on the following page. Please place this within your Group Safety Manual.

I have read this form. Researcher Name: Researcher Signature: Principal Investigator Name: Principal Investigator Signature: Date:

Category A Activity	Standard Procedure Reference in Group Safety Manual	Amended Category A, B, C, or D	PI Signature / Date
Organolithiums, organozincs,			
and other pyrophoric reagents			
Organoaluminiums			
Use of UV light			
Hydrogenation			
Peroxides (including 30% H2O2)			
Liquid ammonia			
Ozone		+	
Toxic, corrosive or vesiccant gases (e.g., HCl, NOCl, COCl2, Cl2, CO, H2S, HCN, NO, F2, butadiene)			
Beryllium			
Inorganic cyanides			
HF			
Alkylating agents (e.g., MeI, R2SO4, CF3OSO2R,			
HCHO, ethylene oxide, ClCH2OMe etc.)			
Diazomethane			
Highly toxic solvents (e.g., benzene, CCl4, CS2, HMPA, 1,4-dioxane, etc.) and human carcinogens			
Highly toxic volatile metallic substances, (e.g., OsO4, metal carbonyls, etc)			
Potentially hazardous operations: 1. Sealed tube reactions 2. Use of perchlorates, azides, or acetylides 3. Use of K; prep. of Na sand 4. Large scale use of flammable solvents			
Other			
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Laboratory Safety Training – New Orientation Checklist

Please	use thi	s checklist for additional laboratory-specific training.			
Please	check	where applicable:			
	Introduction to laboratory-specific Chemical Hygiene Plan (CHP): Location and contents				
	Review SCS Chemical Tracking Program (CISPro)				
	Review location of MSDSs.				
	Reviev	w emergency information: Spills, Personal Injury, Fire, and Power Failure.			
		Fire extinguisher First aid supplies Safety shower Eye wash Evacuation plans			
Basic Safety Rules		Safety Rules			
		Note rules with special importance for your laboratory identified by your PI. Identify specific areas for food consumption outside of the lab. Review procedures for working after hours.			
	Reviev	v Waste Handling Procedures.			
		Labeling Packaging Pick-ups			
	Reviev	v procedures for chemical procurement, distribution, and storage.			
		w Standard Operation Procedures (SOP) for use of hazardous materials found in Group Safety Manual			
	0	Storage (acid, flammable, refrigerator, etc) Personal Protective Equipment (PPE) Location where certain procedure(s) may be performed (e.g., mechanical ventilation required). Waste Disposal (aqueous, solid, biohazardous, and radioactive)			

	Review procedures for use of compressed gas cylinders		
	Protective Apparel and Equipment (Personal Protective Equipment or PPE)		
	 Discuss when safety glasses, goggles, or face shields are required. Discuss any need for other protective equipment. Discuss selection of gloves. 		
	Housekeeping, Maintenance, and Inspections		
	 Discuss materials stored or frequently present on the floor. Discuss maintenance items for scientific equipment. Discuss formal and internal inspection programs. 		
	Additional Safety Session Topics		
	Review recent incidents/accidents/injuries and how to prevent recurrence. Review new equipment at least annually. Review new procedures at least annually.		
	Review results of recent inspections and how to correct problem areas.		
your re	Review other specific safety requirements identified by the Principal Investigator for esearch group. Please list them below.		
I have	read new orientation safety checklist		
Resear	cher Name:		
Resear	cher Signature:		
Princip	al Investigator Name:		
Princip	al Investigator Signature:		
Date:			