

Science Practical Risk Assessment

School of Maths & Science	Practical Activity Title	Rate of reaction with change of temperature (MAS_SP_2008_rate_of_reaction_temp)		Risk Assessment No. MAS_RA_2008_rate_of_reaction_temp	
Location	Chemistry Labs. NB236 / 237			Revision level: 1	
Assessment Performed By	B. Bond	Signature:		Date:	23 Sep 2009
Supported By	Gareth John	Signature:		Date:	23 Sep 2009
Approved By	Kelly Gay (H.o.S.)	Signature:		Date:	23 Sep 2009
Date of Re-assessment (if necessary)	Re-assess if any changes to procedure or equipment / chemicals are made.				

HAZARDS TO BE CONSIDERED	WHO MIGHT BE HARMED?	IS THE RISK ADEQUATELY CONTROLLED?	WHAT FURTHER ACTION IS NECESSARY TO CONTROL THE RISK?
1. Slipping / Tripping	Staff		
2. Fire	Students		
3. Chemicals / drugs			
4. Moving parts of machinery			
5. Pressure systems		<i>Please complete overleaf</i>	<i>Please complete overleaf</i>
6. Electricity			
7. Dust			
8. Fumes			
9. Manual Handling			
10. Noise			
11. Lighting			
12. Computers			
13. Any other hazards			

(Please refer to Risk Assessment Matrix to indicate how Severity and Likelihood combine to produce a Risk score)
Likelihood x Severity = Risk Score, = Low, Medium or High risk

Type & Source Of Hazard	Nature Of The Risk	Type Of Activity In Which Risks May Arise	Control Measures	Risk Rating			L M H	Any Further Control Measures Required
				L	S	R		
Bags & coats	Trip Hazard	Any activity which involves movement around the laboratory	Place all bags & coats etc in lockers provided	1	1	1	L	
Stools	Trip Hazard	Any activity which involves movement around the laboratory	All stools to be stacked and placed at the back / sides of the lab to ensure no obstructions	1	1	1	L	
Sodium Thiosulfate	Splash to eyes / skin irritation	Pouring & mixing solutions	The wearing of safety goggles is mandatory during practical activities in the laboratory. Very dilute sodium thiosulfate is used which has minimal hazard, any splashes to skin should be washed off.	1	2	2	L	
Hydrochloric acid	Splash to eyes / skin irritation	Pouring & mixing solutions	The wearing of safety goggles is mandatory during practical activities in the laboratory. 2mol / dm ³ HCl is used which is an irritant not corrosive; any splashes to skin should be washed off immediately.	1	2	2	L	
SO ₂	Toxicity	Small quantities produced during reaction	Only very small quantities produced, ensure lab is well ventilated during prac. Place glassware in fume cupboards immediately after prac.	1	1	1	L	

Type & Source Of Hazard	Nature Of The Risk	Type Of Activity In Which Risks May Arise	Control Measures	Risk Rating			L M H	Any Further Control Measures Required
				L	S	R		
Hot Apparatus	Burns	Heating samples to 60 °C with Bunsen burners.	All long hair should be tied back, use gloves when handling hot apparatus and allow equipment to cool before putting away.	1	2	2	L	

INDICATE WHAT FIRST AID ARRANGEMENTS ARE IN PLACE

A science technician (qualified first aid at work) shall be present during all science practical lessons.
First aid kit available in all science prep rooms (Physics NB232, Chemistry NB237B & Biology NB124A).

Assessment performed by : (Please Print Name)	B. Bond	Position :	Technician / Chemistry lecturer
Date of Assessment :	23rd September 2009		
Signed :			

ACTION LIST RECOMMENDATIONS	Risk Rating			L M H	TO BE ACTIONED BY	DATE ACTION COMPLETED	SIGNATURE
	L	S	R				