

Science Practical Risk Assessment

School of Maths & Science	Practical Activity Title	Preparation and analysis of Aspirin (MAS_SP_2509_aspirin_prep)		Risk Assessment No. MAS_RA_2509_aspirin_prep	
Location	NB237			Revision level: 1	
Assessment Performed By	Dr. Emma Morgan	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	
Ethanol	Harmful/ toxic	Recrystallisation process	Only very small quantities used. Keep off skin and avoid inhalation. Use suitable gloves and ensure that lab is well ventilated.	2	2	4	L	
Ethanoic anhydride	Corrosive	Formation of product	Only very small quantities used. Keep off skin and avoid inhalation. Use suitable gloves and ensure that lab is well ventilated. Used only in the fume cupboard	2	2	4	L	
Concentrated Phosphoric acid	Corrosive	Formation of product	Only very small quantities used. Keep off skin and avoid inhalation. Use suitable gloves and ensure that lab is well ventilated. Used only in the fume cupboard	2	2	4	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		
2-hydroxybenenecarboxylic acid	Harmful	Formation of product	Ensure that suitable gloves are used. Keep away from eyes.	1	1	1	L	
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	
Hot Apparatus	Burns	Heating water baths with Bunsen burners.	All long hair should be tied back, use tongs when handling hot test tubes and allow equipment to cool before putting away.	1	2	2	L	
Glass wear	Cuts	Handling	Ensure good technique is used, Take care when handling glassware to avoid any breakages.	2	1	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)	Dr. Emma Morgan	Position :	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				