

Science Practical Risk Assessment

School of Maths & Science	Practical Activity Title The Kinetics Of The Reaction Between Iodine And Propanone In Acid Solution <small>(MAS_SP_2009_kinetics_of_iodine_and_propanone)</small>	Risk Assessment No. MAS_RA_2009_kinetics_of_iodine_and_propanone	
Location	Chemistry Labs. NB236 / 237		Revision level: 1
Assessment Performed By	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	
Glass pipettes	Cuts	Attaching pipette fillers to pipette	Good technique is important, ensure the pipette is held as close to the top as possible when attaching pipette filler	2	2	4	L	
Glass wear	Cuts	Handling	Ensure good technique is used. Take care when handling glass wear to avoid any breakages.	2	1	2	L	
Hydrochloric acid	Splashing eyes and skin	Pouring and mixing solutions	Wearing of safety goggles is mandatory. 2 mol dm ³ HCl is used which is an irritant not corrosive, any splashes to the skin should be washed off immediately.	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		
Propanone	Irritant	Pouring and mixing solutions	Wearing of safety goggles and lab coat is mandatory. Any splashes to the skin should be washed off immediately.	1	1	1	L	
Iodine	Harmful by inhalation and contact to the skin	Mixing solutions	Avoid splashing. Wearing of safety goggles and lab coat is mandatory. Any splashes to the skin should be washed off immediately.	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)	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				