

Science Practical Risk Assessment

School of Maths & Science	Practical Activity Title	Titration of a solution of Sodium Hydroxide using Hydrochloric acid. (MAS_SP_2004_titration_of_NaOH_using_HCl)		Risk Assessment No. MAS_RA_2004_titration_of_NaOH_using_HCl	
Location	Chemistry Labs. NB236 / 237			Revision level: 1	
Assessment Performed By	Samantha Oxley	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 and coats	Trip Hazard	Any activity which involves movement around the laboratory	Place all bags and 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	
Hydrochloric acid	Splash to the eyes/skin irritation	Pouring and mixing	Concentrations of 2mol ^{dm} ⁻³ or less will be used which is an irritant but not corrosive. The wearing of safety goggles is mandatory and any splashes to the skin will be washed off with water immediately.	2	2	4	L	
Sodium Hydroxide	Splash to the eyes, Corrosive, skin irritant.	Pouring and mixing	Concentrations of 0.1mol ^{dm} ⁻³ used which is an irritant but not corrosive. The wearing of safety goggles is mandatory and any splashes to the skin will be washed off with water immediately.	2	2	4	L	
Phenolphthalein	Splash to the eyes possible irritant. Low hazard.	Pouring and mixing	Low hazard, the wearing of eye protection and a laboratory coat is mandatory.	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		
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	
General Glassware	Cuts	Handling	Ensure good technique is used, take care when handling glassware to avoid any breakages.	2	2	4	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)	Samantha Oxley	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				