

## Science Practical Risk Assessment

School of Maths & Science	Practical Activity Title		on of Propanone _preparation_of_propanone)	Risk Assessment No.  MAS_RA_2523_preparation_of_propanone			
Location	<b>Chemistry La</b>	bs. <b>NB236</b> /	237	Revision level: 1			
Assessment Performed By	Samantha Ox	ley	Signature:		Date:	24 Sep 2009	
Supported By	Gareth John		Signature:		Date:	24 Sep 2009	
Approved By	Kelly Gay (H.	o.S.)	Signature:		Date:	24 Sep 2009	
Date of Re-assessment							
(if necessary)	Re-assess if any changes to procedure or equipment / chemicals are made.						

HAZARDS TO BE	WHO MIGHT BE HARMED?	IS THE RISK ADEQUATELY	WHAT FURTHER ACTION IS
CONSIDERED		CONTROLLED?	NECESSARY TO CONTROL THE RISK?
1. Slipping / Tripping	Staff		
2. Fire	Students		
3. Chemicals / drugs			
4. Moving parts of machinery			
5. Pressure systems		Please complete overleaf	Please complete overleaf
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 Control Measures Which Risks May		Risk Rating		L M	Any Further Control Measures Required	
		Arise		L	S	R	H	
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	1	
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	
Propanone	Irritant, Highly flammable	Product made during chemical reaction	Small quantities produced, product is collected in a sealed tube as it is produced. Bunsen flame will be kept at a safe distance from product to prevent exposure of propanone to any flames. Wearing of safety goggles and lab coat is mandatory. Any splashes to the skin should be washed off immediately.	1	4	4	L	
Methylated spirit	Harmful through inhalation or ingestion.	Measuring, pouring and mixing	Keep off skin and avoid inhalation. Use suitable gloves and ensure that lab is well ventilated. Wearing of safety goggles and lab coat is mandatory. Any splashes to the skin should be washed off immediately.	1	1	1	L	

Type & Source Of Hazard	Nature Of The Risk	Type Of Activity In Which Risks May	isks May			k ng	L M	Any Further Control Measures Required
		Arise		L	S	R	H	
Sodium Dichromate	Oxidising, Toxic	Measuring, mixing and dissolving	Considered most dangerous in solid form, however dichromate will be fully mixed and dissolved in water before adding alcohol to it. Wearing of safety goggles and lab coat is mandatory. Any splashes to the skin should be washed off immediately.	2	2	4	L	
Concentrated Sulfuric Acid	Corrosive	Measuring and mixing	Acid will be in a diluted form (conc less than 1.5moldm-3) so risk reduced. Wearing of safety goggles and lab coat is mandatory. Any splashes to the skin should be washed off immediately.	2	2	4	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.	2	2	4	L	
Glass wear	Cuts	Handling	Ensure good technique is used, Take care when handling glassware to avoid any breakages.	1	2	2	L	
Propan-2-ol	Irritant and highly flammable	Pouring, measuring and mixing	Reagent will be kept away from any naked flames. Apparatus will be properly sealed with gel to prevent any alcohol vapours from escaping. Wearing of safety goggles and lab coat is mandatory. Any splashes to the skin should be washed off immediately.	1	4	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)	Samanth	a Oxley	Position:	<b>Chemistry Lecturer</b>
Date of Assessment :	24 <sup>th</sup> Septe	ember		
Signed:				

ACTION LIST RECOMMENDATIONS		Risk Latin		L M	TO BE ACTIONED BY	DATE ACTION COMPLETED	SIGNATURE
11200111121121110110	L	S	R	H	1101122 21		