

# SAMPLE RISK ASSESSMENT (inc COSHH)



Cannon Fire – For Demonstration Only

Specific

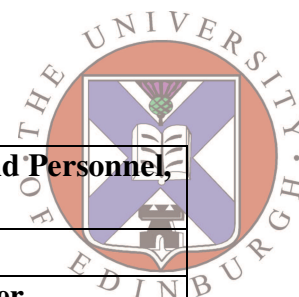
Generic

Please Tick

Date: 18/03/08

Attach additional sheets if required at any section.

Substances Involved and Hazards Identified: e.g. Biological*; Radioactive*; Toxic, Explosive, Inflammable, Carcinogenic		
Substance	Hazard	
Hydrogen peroxide	Burns skin and eyes	
Potassium permanganate	Harmful if swallowed. Irritant.	
Ethanol	Flammable. May be harmful by inhalation, ingestion or skin absorption. May act as an irritant.	
Equipment used & Hazards Identified (Please Tick)		
Apparatus ✓	Cryogenic	Electrical
<b>Scheme of Work/Procedure</b> Measure 20 ml ethanol, 5 cm <sup>3</sup> hydrogen peroxide and 20 ml water into the crystallising dish on a heatproof mat. Place a second heatproof mat to one side. Light the solution with a taper. Scoop the end (tiny amount!) of a spatula of potassium permanganate and tip it into the crystallising dish. <b>You should see an increase in the size of the flame and hear a popping sound.</b> Extinguish the flame by placing the second heatproof mat on top of the crystallising dish. Wash everything up (solution can go down the sink).		



<b>Particular Control/Safety Measures to be Adopted: Both Engineering and Personnel,</b> <b>e.g. Fume Cupboard, Gloves, Blast screen</b>	
Safety goggles, lab coat	
<b>EMERGENCY PROCEDURES (a) Spillage (b) Fire (c) Other</b> a) Wipe up and rinse affected area b) Extinguish fire with media appropriate to it's nature	
<b>First Aid Treatment</b> In case of contact, immediately flush eyes or skin with copious amounts of water. Seek medical aid if necessary.	
<b>Waste Disposal Procedures</b> Wash down the sink with plenty water.	
<b>Information Sources</b> Material Safety Data Sheets	
<b>Name of Assessor</b>	<b>Signature</b>