

# SAMPLE RISK ASSESSMENT (inc COSHH)



Hot and Cold – For Demonstration/Class Activity

Specific

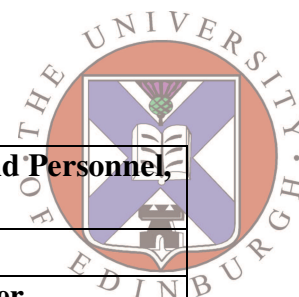
Generic

Please tick

Date: 15/01/07

Attach additional sheets if required at any section.

<b>Substances Involved and Hazards Identified: e.g. Biological*; Radioactive*; Toxic, Explosive, Inflammable, Carcinogenic</b>		
<b>Substance</b>	<b>Hazard</b>	
Calcium Chloride	Irritating to skin, eyes and respiratory tract. Harmful if swallowed or inhaled.	
Ammonium Nitrate	Strong oxidiser - contact with combustible material may cause fire. Harmful if swallowed or inhaled. Eye, skin and respiratory irritant.	
<b>Equipment used &amp; Hazards Identified (Please Tick)</b>		
<b>Apparatus</b> ✓	<b>Cryogenic</b>	<b>Electrical</b>
<b>Scheme of Work/Procedure</b> A beaker is filled with water (100 ml) and the temperature is measured. 3 spoonfuls of calcium chloride are added, the mixture is stirred and the temperature is measured again (temperature increases). A second beaker is filled with water (100 ml) and the temperature is measured. 3 spoonfuls of ammonium nitrate are added, the mixture is stirred and the temperature is measured again (temperature decreases).		



**Particular Control/Safety Measures to be Adopted: Both Engineering and Personnel,  
e.g. Fume Cupboard, Gloves, Blast screen**

Safety goggles, lab coat, gloves

**EMERGENCY PROCEDURES (a) Spillage (b) Fire (c) Other**

a) Clean with plenty water

b) Extinguishfire with equipment appropriate to the nature.

**First Aid Treatment**

In case of contact, immediately flush eyes or skin with copious amounts of water.

**Waste Disposal Procedures**

Domestic waste/sink with plenty water

**Information Sources**

Material Safety Data Sheets

**Name of Assessor**

**Signature**