# SAMPLE RISK ASSESSMENT (inc COSHH)

## Blood Iron – For demonstration/class activity

**Specific** ☐ ✓ **Generic** ☐ **Please tick** **Date:** 25/09/06

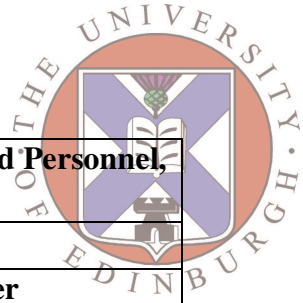
**Attach additional sheets if required at any section.**

| **Substances Involved and Hazards Identified: e.g. Biological*; Radioactive*; Toxic, Explosive, Inflammable, Carcinogenic** | |
|---|---|
| **Substance** | **Hazard** |
| **$FeCl_3.6H_2O$** | Harmful if swallowed<br>Causes burns |
| **KSCN** | Harmful by inhalation, in contact with skin and if swallowed. Contact with acids liberates very toxic gas. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment |

| **Equipment used & Hazards Identified (Please Tick)** | | |
|---|---|---|
| **Apparatus** ✓ | **Cryogenic** | **Electrical** |

**Scheme of Work/Procedure**

Small amounts (less than 0.1g) of iron(III) chloride and potassium thiocyanate are measured out and made into separate dilute solutions (20 ml each). All glassware will be plastic. These solutions are then mixed to give a bright red solution (the fake blood).

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|---|
| **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**<br>a) Wipe up and rinse affected area<br>b) In case of fire, extinguish with either powder, $CO_2$ or Foam extinguisher |
| **First Aid Treatment**<br>In case of contact, immediately flush eyes or skin with copious amounts of water. If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately. |
| **Waste Disposal Procedures**<br>Wash down sink with plenty of water |
| **Information Sources**<br>**Material Safety Data Sheets** |
| **Name of Assessor** **Signature** |