# 

**SSERC Risk Assessment** (revised version March 2018)

(based on HSE’s INDG 163 ‘Risk assessment - A brief guide to controlling risks in the workplace’)

2 Pitreavie Court, South Pitreavie Business Park, Dunfermline KY11 8UU

tel : 01383 626070 e-mail : [enquiries@sserc.org.uk](mailto:enquiries@sserc.org.uk) web : [www.sserc.org.uk](http://www.sserc.org.uk)

# 

|  |  |
| --- | --- |
| Activity assessed | Int2 PPA3-2 - Factors Affecting Voltage |
| *Date of assessment* | 8th July 2022 |
| *Date of review (****Step 5****)* |  |
| *School* |  |
| *Department* |  |

| Step 1 | Step 2 | Step 3 | Step 4 | | |
| --- | --- | --- | --- | --- | --- |
| *List Significant hazards here:* | *Who might be harmed and how?* | *What are you already doing?*  *What further action is needed?* | *Actions* | | |
| *by whom?* | *Due date* | *Done* |
| There are no significant hazards with **carrying out** this experiment. | | |  |  |  |
| Sodium hydroxide is corrosive to skin and eyes  0.1 mol l-1 Sodium hydroxide solution is of no significant hazard. | Technician by splashes while making up dilute solutions. | Wear goggles (BS EN166 3) and gloves. |  |  |  |
| Hydrochloric acid is corrosive and gives off corrosive fumes. | Technician by splashes or inhalation while preparing solutions | Work in a fume cupboard or in a well-ventilated laboratory. Wear goggles (BS EN166 3) and gloves |  |  |  |
| 0.1 mol l-1 hydrochloric acid is of no significant hazard. |  |  |  |  |  |
| Sodium chloride is of no significant hazard. |  |  |  |  |  |

|  |
| --- |
| **Description of activity:**  The voltage generated in a simple cell using sodium chloride as the electrolyte is measured using different combinations of electrodes.  The voltage generated in a simple cell using sodium chloride as the electrolyte is measured using different electrolytes.. |

|  |
| --- |
| **Additional comments:** |