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

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

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| Activity assessed | Comparing strong and weak acids |
| *Date of assessment* | 07/07/2015 |
| *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* |
| Hydrochloric acid is corrosive and produces corrosive vapour | Technician preparing 1M solution by splashes and/or inhalation. | Wear goggles (EN 166 3) or a face shield and work in a fume cupboard or a well-ventilated lab. |  |  |  |
| 1M Hydrochloric acid is of no significant hazard |  |  |  |  |  |
| Ethanoic acid is corrosive and produces corrosive vapour | Technician preparing 1M solution by splashes and/or inhalation. | Wear goggles (EN 166 3) or a face shield and work in a fume cupboard or a well-ventilated lab. |  |  |  |
| 1M Ethanoic acid is of no significant hazard |  |  |  |  |  |
| Marble chips are of no significant hazard Magnesium ribbon can release flammable hydrogen gas in contact with acid but at this scale the hazard is of no significance |  |  |  |  |  |

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| **Description of activity:**  The pH and conductivity of 1M hydrochloric and ethanoic acids are measured then pieces of marble ch9ip and magnesioum ribbon are dropped into (separate) test tubes of both and the reactions observed. |

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| **Additional comments:**  The resultant solutions will be of no significant hazard and can be safely washed to waste. |