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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’)

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)

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| Activity assessed | Int1 PPA1-3 - Testing the pH of Solutions |
| *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* |
| Universal indicator solution is flammable | Pupils by burning | Keep away from sources of ignition. |  |  |  |
| Ammonia is corrosive to skin and eyes and released toxic gas. | Technician by splashes and inhalation while preparing dilute solutions | Wear goggles (BS EN133 3) and gloves. Work in a fume cupboard. |  |  |  |
| Dilute ammonia solution (0.1 mol l-1 is of no significant hazard |  |  |  |  |  |
| Washing powder can be an irritant (check details from manufacturer)  Dilute solution is of no significant hazard | Technician by while preparing dilute solutions | Avoid raising dust. Consider gloves and eye protection. |  |  |  |
| All other reagents listed are of no significant hazard. |  |  |  |  |  |

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| **Description of activity:**  Samples of various solutions have universal indicator solution or paper added and the colour is compared to a standard colour chart. |

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| **Additional comments:**  If other materials are to be tested other than those listed, they should be risk assessed by the teacher. |