#

**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 web : [www.sserc.org.uk](http://www.sserc.org.uk)

#

|  |  |
| --- | --- |
| Activity assessed | A Redox Titration |
| *Date of assessment* | 7th December 2021 |
| *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* |
| Iodine is harmful if swallowed and produces irritating fumes. | Technician while preparing solutions by inhaling fumes. | Wear eye protection and work in a well-ventilated room. (Gloves could be advisable to avoid staining of hands) |  |  |  |
| 0.025 mol l-1 iodine solution is of no significant hazard. (at this low concentration it will not release any significant amount of fumes) |  |  |  |  |  |
| Starch, solid and solution, is of no significant hazard. |  |  |  |  |  |
| Vitamin c tablets are of no significant hazard. |  |  |  |  |  |
| Sodium thiosulphate (used for clearing spillage or standardising the iodine solution is of no significant hazard. |  |  |  |  |  |
|  |  |  |  |  |  |

|  |
| --- |
| **Description of activity:**A vitamin C tablet is dissolved in water and aliquots titrated against iodine solution using starch as an indicator. |

|  |
| --- |
| **Additional comments:**Disposal – all solutions can be washed to waste with plenty of cold running water |