# 

**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 | Equilibrium and Carbon Dioxide |
| *Date of assessment* | 8th December 2019 |
| *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* |
| Methyl red. Solid harmful if swallowed.  Solution, no significant hazard | Technician while preparing solution. | Observe normal laboratory hygiene |  |  |  |
| When pulling out the syringe barrel, it can snap back and trap fingers – painful but not dangerous. | Demonstrator | Take care. |  |  |  |

|  |
| --- |
| **Description of activity:**  **Description of activity:**  Soda water has methyl red added to it. A small amount is sucked up into a luer lock syringe. The plunger is pulled out and secured by a nail through a hole prepared in the stem of the barrel.  The syringe is then shaken. CO2 comes out of solution raising the pH and the indicator changes from red to yellow. |

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