# SSERC logo

**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 | The Blue Bottle |
| *Date of assessment* | 30th June 2020 |
| *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* |
| Sodium hydroxide solution is corrosive. | Technicians, demonstrator and audience by splashing. | Preparation of 0.5M NaOH. Wear indirect vent goggles (BS EN166 3) and glovesEnsure lid of bottle is tightly fastened before shaking. If solutions are spilled on skin, wash off with copious amounts of water. |  |  |  |
|  |  |  |  |  |  |

|  |
| --- |
| **Description of activity:**A bottle containing sodium hydroxide, glucose and methylene blue is made up.This is a Redox reaction. The indicator can be oxidised many times by shaking.As the mixture is allowed to stand, the dye converts to its reduced form which is colourless: shaking the mixture produces an oxidised form which is blue. This can be repeated lots of time – for at least half an hour. |
| **Additional comments:** |