# 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’)

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| Activity assessed | Traffic Lights |
| *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. |  |  |  |
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| **Description of activity:**A bottle containing sodium hydroxide, glucose and indigo carmine is made up.This is a Redox reaction. The indicator can be oxidised many times by shaking.Gently shaking the mixture produces one oxidised form with a different colour, while vigorous shaking will then turn this into a different oxidised form again, with yet another colour still. As the mixture is allowed to stand, the dye reverts back to its reduced forms with the accompanying colours again becoming visible. |
| **Additional comments:**The bromine and tomato juice mixture can be washed to waste with plenty of cold, running water. |