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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’)

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| Activity assessed | Colourful Flowers |
| *Date of assessment* | 06/02/2018 |
| *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* |
| 100 volume hydrogen peroxide is corrosive | Technician and/or teacher by splashes while preparing solutions | Wear indirect vent goggles BS EN 1663  Wear nitrile gloves |  |  |  |
| Sodium hydroxide is corrosive | Technician and/or teacher while preparing solutions | Wear indirect vent goggles BS EN 1663  Wear nitrile gloves |  |  |  |
| Ammonium molybdate is harmful and irritant | Technician and/or teacher while preparing solutions | Wear eye protection. Avoid raising dust. |  |  |  |
| Universal indicator is flammable | Technician and/or teacher while preparing solutions | Keep away from sources of ignition |  |  |  |
| Reaction mixture has no significant hazards |  |  |  |  |  |

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| **Description of activity:**  Hydrogen peroxide oxidises sodium thiosulphate to sulphuric acid. Starting from an alkaline solution, the resulting pH change can be followed using universal indicator which changes from blue to green to yellow to orange-red. Adding an ammonium molybdate catalyst significantly speeds up the colour change. |

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| **Additional comments:**  Place the flasks on a white background to make clearly visible.  The reaction mixture can be washed to waste with copious quantities of water. |