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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 | Blue Light |
| *Date of assessment* | October 2016 |
| *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 vol (30%) Hydrogen peroxide is corrosive.  The 10 vol solution is of no significant hazard | Technician preparing dilute solution by splashes. | Wear nitrile gloves and indirect vent goggles (BS EN166 3). |  |  |  |
| Sodium hydroxide (solid and the 5% (1.25M) solutions are corrosive | Technician preparing dilute solution by splashes. | Wear nitrile gloves and indirect vent goggles (BS EN166 3). |  |  |  |
| Luminol powder is a skin, eye and respiratory irritant | Technician preparing dilute solution by splashes. | Wear eye protection and consider gloves. |  |  |  |
| potassium hexacyanoferrate III is a skin, eye and respiratory irritant | Technician preparing dilute solution by splashes. | Avoid raising dust.  Wear eye protection and consider gloves. |  |  |  |
| The reaction mixture is of no significant hazard |  |  |  |  |  |

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| **Description of activity:**  When the chemicals are made up, they are allowed to mix in a darkened room.  This leads to a bright blue luminescence seen going down the spiral and into the collection vessel. |

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| **Additional comments:**  Waste solution should be diluted with copious amounts of water and flush to waste. |