# 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 | Ghost Metal |
| *Date of assessment* | 3rd February 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* |
| 100v hydrogen peroxide is corrosive and a powerful oxidiser. | Technician and demonstrator by splashes while preparing/carrying out demonstration | Remove from contact with combustible material e.g. flammable vapours, paper, wood dust and gases.  Wear nitrile gloves and goggles (BS EN166 3).  If spilled on skin, wash off with copious amounts of water.  Remove and wash contaminated clothing. |  |  | |  | |
| Ammonia (.880) is corrosive (Cat 1B) and toxic (Cat 3) by inhalation | Technician/demonstrator by splashing or by inhalation of fumes | Wear goggles (BS EN166 3) and gloves and work in a fume cupboard |  |  | |  | |
| Luminol, NaEDTA and the concentrated solution are irritants. | Technician/demonstrator by spillage/splashing. | Wear eye protection and gloves if skin is sensitive |  |  | |  | |
| The final working solution is of low hazard. |  |  |  |  | |  | |

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| **Description of activity:**  The solution is made up and copper coins (or other objects are placed in it).  The copper catalyses the reaction of luminol with hydrogen peroxide and causes a blue luminescence. The EDTA mops up spare copper ions so the glow is limited to the immediate vicinity of the coins. |
| **Additional comments:**  The solution is very dilute and can be washed to waste with large quantities of cold running water. |