# 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 | Plastic Fantastic |
| *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* |
| Brasso contains petroleum spirit and is harmful by inhalation or skin contact. | Pupils/teachers while cleaning the electrodes. | Work in a well ventilated area. Wear nitrile gloves. |  |  | |  | |
| Propanone is highly flammable and an eye/respiratory irritant. | Pupils/teachers while cleaning the electrodes. | Work in a well-ventilated area. Wear eye protection. Keep away from sources of ignition. |  |  | |  | |
| Pyrrole is flammable and harmful orally and by inhalation | Teacher/technician making up solution. | Work in a well-ventilated area or a fume cupboard. Wear gloves - (either low density polyethylene or rubber). Keep away from sources of ignition. |  |  | |  | |
| Sodium 4-methylbenzene sulphonate is a skin/eye irritant (It may have longer term health hazards but has not yet got a harmonised classification) | Teacher/technician making up solution | Work in a well-ventilated area or a fume cupboard. Wear gloves - (either low density polyethylene or rubber). |  |  | |  | |
| The working solution is low hazard but (see note) above, contact is best avoided |  |  |  |  | |  | |

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| **Description of activity:**  An electric current is passed through a solution of pyrrole and sodium 4-methylbenzenesulfonate. There is a nickel anode and a copper cathode.  Poly pyrrole is deposited on the nickel electrode.  After about 40 minutes, it can be taken off and the conductivity tested. |
| **Additional comments:** |