# 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 | When a fossil fuel burns |
| *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* |
| Copper sulphate is harmful by swallowing or inhalation of the dust. It also causes serious eye damage | Technician, demonstrator and audience. | Wear goggles (EN166 3). Avoid raising dust. If spilled on skin, wash off with copious amounts of water. |  |  | |  | |
| Calcium hydroxide is corrosive. | Technician preparing lime water. | Avoid raising dust. Wear goggles (EN 166 3) and gloves. |  |  | |  | |
| Lime water, while not even technically an irritant, can irritate eyes. Take precautions | Demonstrator and audience by splashing | Avoid splashing.  Wear eye protection if there is a danger of significant splashing/spillage.  If spilled on skin, wash off with copious amounts of water. |  |  | |  | |

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| **Description of activity:**  A candle (or similar) is burned and a pump pulls the fumes through:   1. A tube in an ice/salt bath to condense water vapour. 2. Lime water which goes cloudy with the CO2. |
| **Additional comments:** |