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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 | Int2 PPA2-2 - Cracking |
| *Date of assessment* | 8th July 2022 |
| *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* |
| Liquid paraffin and aluminium oxide are of no significant hazard |  |  |  |  |  |
| Bromine is corrosive to skin and eyes and very toxic if inhaled. | Technician preparing bromine water. | Wear goggles (BS EN166 3) and gloves. Work in a fume cupboard.  (or use an in situ method to generate it.) |  |  |  |
| 0.02 mol l-1 bromine solution is of no significant hazard. |  |  |  |  |  |
| Be careful to avoid suck back | Pupil carrying out experiment. | Do not have tube dipping into bromine water unless you are actively heating the solution |  |  |  |
| The mixture of gases produced has a variety of hazards but quantities are small. | Pupil carrying out experiment by inhalation. | Work in a well-ventilated laboratory. Avoid inhaling fumes as far as possible. |  |  |  |

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| A picture containing text, antenna  Description automatically generated**Description of activity:**  Liquid paraffin fumes are passed over hot aluminium oxide and the gaseous products tested. |

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| **Additional comments:**  **A safer alternative is to carry this out on a microscale – a method is available on the SSERC website** |