# 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 | Ostwald process - Microscale |
| *Date of assessment* | 30th June 2021 |
| *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* |
| Ammonia is toxic if inhaled and 880 ammonia is corrosive to skin and eyes | Technician/teacher while filling syringe with gas.. | Wear eye protection and rubber or plastic gloves, carry out the work in a fume cupboard. |  |  | |  | |
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| **Description of activity:**  A 60 cm3 syringe is filled with a mixture of 25 ml of ammonia and 35 ml of oxygen.  Some copper wire or turnings are placed in a length of borosilicate tubing and heated.  Once hot, the gas mixture is passed over the copper and bubbled through a dilute solution of universal indicator. This should go red to show an acidic gas (NO2) has been produced. You may also see that the gas is brown. |
| **Additional comments:** |