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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’)

2 Pitreavie Court, South Pitreavie Business Park, Dunfermline KY11 8UU

tel : 01383 626070 e-mail : [enquiries@sserc.org.uk](mailto:enquiries@sserc.org.uk) web : [www.sserc.org.uk](http://www.sserc.org.uk)

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| Activity assessed | Bad breath experiment |
| *Date of assessment* | October 2013 |
| *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* |
| Concentrated ammonia solution is Toxic if inhaled in high concentrations or if swallowed. Forms explosive mixtures in air (16-25%). Gas and solutions very irritant to the eyes. Solution burns skin and swallowing causes internal damage. | Technician preparing dilute ammonia solutions by splashes inhalation of fumes. | Wear gloves and goggles (EN 166 3) or a face chield and handle in fume cupboard. Remove stopper carefully (pointed away from body) from stored containers of the concentrated solution as pressure can build up, especially in warm conditions. |  |  |  |
| 1 M ammonia solution is corrosive and releases irritating fumes. |  |  |  |  |  |
| Universal indicator is flammable. | Demonstrator/Audience | Keep away from any source of ignition. |  |  |  |
| Both the buffered and the un- buffered solutions are of no significant hazard. Avoid sucking the solutions rather than blowing anyway. |  |  |  |  |  |
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| **Description of activity:**  Pupil / demonstrator blow into two solutions, one of a very dilute ammonia solution, the other of a buffer, both containing universal indicator. The first one goes yellow while the second remains the same colour. |

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| **Additional comments:**  The solutions are low hazard and can be washed to waste. |