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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 | Different Drinks |
| *Date of assessment* | 8th December 2019 |
| *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* |
| Barium chloride is toxic (Cat 3) if swallowed and harmful if dust is inhaled.  Barium chloride solution is harmful if swallowed\* (see comments) | Technician/teacher preparing solution  Demonstrator/audience by splashing | Avoid raising dust. Wear goggles (BS EN166 3)  If splashed, wash off skin with copious quantities of water. |  |  |  |
| Sodium sulphate is of no significant hazard |  |  |  |  |  |

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| **Description of activity:**  Sodium sulphate solution is in the magic bottle.  It is poured into 2 glasses. One of which has a few ml of barium chloride solution in the bottom – obscured from view.  This glass goes cloudy die to the BaSO4 precipitate while the other remains clear. |

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| **Additional comments:**  The Barium chloride solution is harmful but depending at room temperature and above, a genuinely saturated solution just strays into classification as toxic. |