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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 | Determination of aspirin (AH PPA) |
| *Date of assessment* | 26the Feb 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* |
| Sulphuric acid is highly corrosive. | Technician while preparing the solution by splashes. | Wear goggles (BS EN166 3) or a face shield and gloves. |  |  |  |
| 0.05 molar sulphuric acid is of low hazard |  |  |  |  |  |
| 1 molar sodium hydroxide is corrosive as is the solid. | Technician while preparing the solution and pupil/teacher while using it by splashes. | Wear goggles (BS EN166 3) and consider gloved. |  |  |  |
| Phenolphthalein is a Category 2 carcinogen but the solution is not. | Technician by inhalation while preparing indicator solution. | Avoid raising dust. |  |  |  |
| Phenolphthalein solution is made up in ethanol (IDA) which is flammable, harmful if swallowed and causes damage to the eyes on long-term or repeated exposure. | Technician by inhalation of vapour or ignition of fumes. | Keep away from sources of ignition and work in a well-ventilated laboratory. |  |  |  |
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| **Description of activity:**  Aspirin tablet(s) are reacted with standardized sodium hydroxide and then back titrated against standardized hydrochloric acid. |

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| **Additional comments:** |