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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 | Hydrolysis of ethyl benzoate (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* |
| Concentrated hydrochloric acid is corrosive and produces irritating fumes. | Technician while preparing the solution by splashes or inhaling fumes. | For preparation, Wear goggles (BS EN166 3) or a face shield and gloves. Work in a fume cupboard or a well-ventilated laboratory if quantities are not too great. |  |  |  |
| 5 molar hydrochloric acid is a skin/eye irritant. | Pupil/teacher by splashes while using. | Wear eye protection. |  |  |  |
| 2 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. |  |  |  |
| Ethyl benzoate is of no significant hazard. |  |  |  |  |  |
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| **Description of activity:**  Ethyl benzoate is refluxed with sodium hydroxide, neutralized and the precipitate filtered off and dried. Melting point can then be determined. |

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| **Additional comments:** |