# 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 | Syringe Chromatography (’Son of Flash’) |
| *Date of assessment* | 30th June 2020 |
| *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* |
| **Preparing the Column** |  |  |  |  | |  | |
| Starch powder and talc have no significant hazard |  | Avoid breathing any dust |  |  | |  | |
| **Running the column** |  |  |  |  | |  | |
| Sand has no significant hazard |  |  |  |  | |  | |
| Propanone, ethanol and white spirit are flammable | Technician, teacher or pupil | Keep away from any source of ignition |  |  | |  | |
| Propanone, ethanol and white spirit vapours are harmful by inhalation | Technician, (while preparing samples) teacher or pupil (while carrying out activity). | Technician should decant solvents in a fume cupboard |  |  | |  | |
| Concentrated HCl is corrosive | Technician (or teacher) while preparing acidified ethanol. | Pupil / teacher – carry out experiment in well-ventilated room  Wear nitrile gloves and goggles (EN 166 3). |  |  | |  | |

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| **Description of activity:**  Using plastic syringes packed with talc or starch to separate:   1. water soluble food dyes into their component constituents. 2. Plant pigments into their components. |
| **Additional comments:** |