# SSERC logo

**SSERC Risk Assessment** (revised version November 2009)

(based on HSE ‘5 steps to risk assessment’)

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

tel : 01383 626070 fax : 01383 842793

e-mail : [sts@sserc.org.uk](mailto:sts@sserc.org.uk) web : [www.sserc.org.uk](http://www.sserc.org.uk)

# 

|  |  |
| --- | --- |
| Activity assessed | Sugar Lump Flame Tests |
| *Date of assessment* | 3rd January 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* |
| Ethanol is highly flammable | Technician and teacher | Keep away from sources of ignition |  |  | |  | |
| Solutions containing metal salts are toxic, harmful, dangerous for the environment and irritant | Technician and teacher by inhalation  Technician, teacher and pupil by splashes | Avoid breathing in any dust  Wear indirect vent goggles EN 1663  Consider wearing gloves.  If contact with eyes or skin was off/ out with copious quantities of water |  |  | |  | |

|  |
| --- |
| **Description of activity:**  Making ethanolic solutions of metal salts, soaking them into sugar lumps and then lighting. |
| **Additional comments:**  If it is decided that the slightly better colours obtained with methanol are desirable. Use the risk assessment for methanol flame tests. (which uses a slightly different methodology). |