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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 | Photochemical catalysis |
| *Date of assessment* | 21st February 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* |
| All chemicals listed are of no significant hazard.Care should be taken with the oxides, however to avoid inhalation of dust. |  |  |  |  |  |
| Exposure to uv light can cause skin/eye damage. | Pupils/teacher during experiment | Do not use a short-wavelength uv lamp for this experiment. Avoid looking at the lamp as far as possible and do not keep hands under the uv source. |  |  |  |
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| **Description of activity:**Drops of DCPIP with a small amount of propane-1,2,3-triol (Glydcerol) are placed on a plastic sheet and small amounts of metal oxides added.The drops are then illuminated with uv light (or left in sunshine). The sample with the titanium dioxide gets bleached on exposure to light. |

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| **Additional comments:**Disposal – all substances can be washed to waste or mopped up and put in the bin. |