# 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 | Hot Ice |
| *Date of assessment* | 3rd February 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* |
| Sodium ethanoate is of low hazard. |  | None other than care with hot water. |  |  | |  | |

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| **Description of activity:**  Sodium ethanoate-3-water is heated with 1/10 its volume of water until it forms a solution. The solution is bottled and cools to form a super-saturated solution.  This solution is poured onto a watch glass or similar with a seed crystal or two of sodium ethanoate. The supersaturated solution immediately forms a solud ‘icicle’ giving out heat. |
| **Additional comments:**  Aside from the normal issues with hot liquids, this experiment is of low risk. |