# COSHH Process Safety Assessment

<table>
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<tr>
<th>Name of Process</th>
<th>CALIBRATION OF pH METER AND PREPARATION OF BUFFER REFERENCE STANDARDS</th>
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**Brief Description**

Preparation and use of buffer reference standards for the calibration of pH meters.

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<th>Locations used</th>
<th>RKCSB: 341</th>
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**Hazards Involved**

1. Strong acid – Buffer reference standard pH4.0 Code Red

**Nature of Hazards**

1. Both acid and alkali are corrosive to eyes and skin.
2. Irritating to eyes, respiratory system, digestive system and skin.

**Precautions Required**

1. PPE must be worn, ie. lab coat, appropriate gloves, safety glasses.
Spillage Handling and Emergency Procedures

Worse case spill of made up solution would be 10ml of buffer reference standard within the containment tray.

Mop up with tissues and send for autoclaving. Wash area with water.

Worse case spill of buffer powder would be one capsule - wipe up with dampened tissues and send for autoclaving. Wash area with water.

Disposal of Waste Materials

Tissues, gloves, etc are sent for autoclaving.
Waste liquids are poured down the sink, with copious quantities of water.

Local Exhaust Ventilation Used

Nil

Documentation Issued

SOPs
Laboratory Safety book
MSDS

THE ASSESSMENT

In the opinion of the Assessor, taking into account the toxic nature of the substances and the way they are used and controlled does a risk to health occur?

If yes describe how, where and what improvements are required to minimise those hazards or to achieve satisfactory control,

Taking into account the hazards of the substances and the way they are used and controlled, a risk to health does not occur.

ASSESSOR:

<table>
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<tr>
<th>Name</th>
<th>A Gillies</th>
<th>Position</th>
<th>Section Safety Officer</th>
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<tr>
<td>Signature</td>
<td>[Signature]</td>
<td>Date</td>
<td>17.07.2008</td>
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Is the work likely to change significantly in the foreseeable future? No

If yes, give date for re-assessment