SAFETY SHEET
Fuel cells for future energy

<table>
<thead>
<tr>
<th>Substance</th>
<th>Hazard</th>
<th>Comment</th>
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<tbody>
<tr>
<td>0.38 M KOH (aq)</td>
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<td>WARNING</td>
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<td>Causes skin and serious eye irritation</td>
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<td>Wear eye protection</td>
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Typical control measures to reduce risk
- Keep volumes and concentration of KOH(aq) used low (below 0.4 M)
- Keep careful control of stocks to prevent theft
- WEAR EYE PROTECTION

Assessing the risks
- What are the details of the activity to be undertaken? What are the hazards?
- What is the chance of something going wrong? *Eg, Is there the possibility of theft or foolish behaviour?*
- How serious would it be if something did go wrong?
- How can the risk(s) be controlled for this activity?

Emergency action
- **In the eye**
  - If solutions get in the eye, rinse for several minutes. Remove contact lenses if present and easy to do so and continue rinsing. If eye irritation persists see a doctor.
- **On skin**
  - If KOH(aq) solution is spilt on skin, remove contaminated clothing and rinse with water.
- **Swallowed**
  - Do no more than wash the mouth with water. Do not induce vomiting. See a doctor.
- **Spilt on the floor, bench, etc**
  - Wipe any spilled ethanol solutions up with absorbent cloths.
- **Ethanol catches fire**
  - Report immediately to a fire marshal. Trained personnel: use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.