### PRODUCT SPECIFICATION

**Product Name:** Furfuraldehyde (Furfural)

**Product Code:** 028438

**Synonyms:** Furfural, 2-Furaldehyde, 2-Furancarboxyaldehyde

**C.I. No.:** N/A

**CASR No.:** 98-01-1

**Atomic or Molecular Formula:** C₅H₄O₂

**Atomic or Molecular Weight:** 96.09

**Properties:** Combustible.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Oily, colourless liquid, may become yellow, then reddish brown or brown on exposure to light / air.</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in alcohol, ether and benzene. 9.0% soluble in water at 20°C.</td>
</tr>
<tr>
<td>Assay (ex CHO)</td>
<td>98 - 101%</td>
</tr>
<tr>
<td>Wt.per ml at 20°C</td>
<td>1.158 - 1.162 g</td>
</tr>
<tr>
<td>Boiling Range</td>
<td>160 - 163°C</td>
</tr>
</tbody>
</table>

**Maximum Limit of Impurity**

| Acidity                        | 3 ml N/1%                                  |

**Note(s):** Assay (if applicable) method mentioned.

**DANGER**

**HAZARD STATEMENTS:** May cause respiratory irritation. Highly flammable liquid and vapour. Fatal if inhaled. Toxic if swallowed. Harmful in contact with skin. Causes mild skin irritation. Causes serious eye irritation. May cause allergic skin reaction. Suspected of causing cancer.

**PRECAUTIONARY STATEMENTS:**

**Disposal:** The chemical is disposed off by its slow addition to an excess of water. The final concentration should not be greater than 2%. Neutralize with 5% hydrochloric acid and run to waste with large quantities of running water. The chemical should be mixed with combustible solvent and burnt in a chemical incinerator equipped with burner and scrubber.

**Note(s):** Assay (if applicable) method mentioned.

**Hazard pictogram(s):**

- Flammable liquids
- Acute toxicity
- Aspiration hazard

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**Central Drug House (P) Ltd.**

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