**SECTION I NAME**

Product: Methylcellulose Powder

Chemical Synonyms: Methocel®, Cellulose Methyl Ether

**SECTION II INGREDIENTS OF MIXTURES**

<table>
<thead>
<tr>
<th>Principal Component(s)</th>
<th>%</th>
<th>TLV Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylcellulose: (CAS No. 9004-67-5)</td>
<td>85-99%</td>
<td>None established.</td>
</tr>
<tr>
<td>Water: (CAS No. 7732-18-5)</td>
<td>1-10%</td>
<td>None established.</td>
</tr>
<tr>
<td>Sodium chloride: (CAS No. 7647-14-5)</td>
<td>0.5-5%</td>
<td>None established.</td>
</tr>
</tbody>
</table>

**SECTION III PHYSICAL DATA**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Point (°F)</td>
<td>Decomposes on heating.</td>
</tr>
<tr>
<td>Boiling Point (°F)</td>
<td>Decomposes on heating.</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density (Air=1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Forms aqueous dispersions. There is no sharp solubility limit.</td>
</tr>
<tr>
<td>Appearance &amp; Odor</td>
<td>White to slightly off-white, free-flowing powder; no odor.</td>
</tr>
</tbody>
</table>

**SECTION IV FIRE AND EXPLOSION HAZARD DATA**

- **Flammable Limits in Air**
  - Non-flammable
  - Lower: Unknown
  - Upper: Unknown
- **Flash Point (Method Used)**
  - Non-flammable
- **Extinher Media**
  - Water fog: carbon dioxide (CO₂); dry chemical.

**SPECIAL FIREFIGHTING PROCEDURES**

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Minimum explosive dust concentration is 0.03 oz./cu. ft. Similar to flour or grain dusts. Keep clouds of such dust away from possible ignition sources. Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

**SECTION V HEALTH HAZARD DATA**

<table>
<thead>
<tr>
<th>Threshold Limited Value</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>None established. (ACGIH 2001)</td>
<td>Avoid dust clouds and layers.</td>
</tr>
<tr>
<td>Industrial Hygiene Guide 10 mg/m³ for nuisance dust effect.</td>
<td></td>
</tr>
</tbody>
</table>

**Effects of Overexposure**

- Dust may cause eye irritation or corneal injury due to mechanical action. Essentially non irritating to skin. Low hazard anticipated from ingestion or inhalation. Oral LD50 for rats is >10,000 mg/kg. Target organs None known.

**Emergency and First Aid Procedures**

**INGESTION:** Call physician or Poison Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Waste Disposal Method**

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Uncontaminated material may be disposed of in a sanitary landfill, or dispose of in an approved incinerator.

**SECTION VI REACTIVITY DATA**

- **Stability**: Unstable
- **Reactivity**: Strong oxidizing materials.
- **Incompatibility (Materials to Avoid)**: Strong oxidizing materials.
- **Hazardous Polymerization**: Thermal decomposition or burning will produce carbon dioxide and/or carbon monoxide.
- **Hazardous Decomposition Products**: Thermal decomposition or burning will produce carbon dioxide and/or carbon monoxide.
- **Conditions to Avoid**: None applicable.

**SECTION VII SPILL OR LEAK PROCEDURES**

Steps to be taken in case material is released or spilled:

- Could cause slippery hazard. Sweep up and place in a suitable container for disposal by burying or incinerator. Wash spill area with soap and water.

**SECTION VIII SPECIAL PROTECTION INFORMATION**

Respiration Protection (Specify Type): None should be needed in normal laboratory handling. If dusty conditions prevail, wear a NIOSH/MSHA-approved dust mask or work in ventilation hood.

**Ventilation**

- **Local Exhaust**: Recommended.
- **Mechanical (General)**: Recommended.

**Protective Gloves**

None needed.

**Eye Protection**

Chemical safety glasses.

**SECTION IX SPECIAL PRECAUTIONS**

Precautions to be Taken in Handling & Storing:

- Store in a cool, dry place away from oxidizers and fire hazards. Wash thoroughly after handling. Remove and wash contaminated clothing.

**Other Precautions**

- Avoid breathing dust. Under certain conditions a fine dust of this material in air may cause a dust explosion when exposed to heat, sparks, and open flame.