1. PRODUCT IDENTIFICATION
   Name: Thymol Blue Indicator
   Code #: 2213

2. HAZARDOUS INGREDIENTS
   1. May contain either of
   2. the following for adjustment of initial pH:
   3. Hydrochloric acid
   4. Sodium Hydroxide

<table>
<thead>
<tr>
<th>CAS #</th>
<th>%</th>
<th>PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>7647-01-0</td>
<td>&lt;0.1</td>
<td>C 7</td>
</tr>
<tr>
<td>1310-73-2</td>
<td>&lt;0.1</td>
<td>2</td>
</tr>
</tbody>
</table>

   TLV
   1. C 5 ppm |
   2. 2 mg/cubic m |

3. NON-HAZARDOUS INGREDIENTS
   1. Thymol Blue
   2. Water to 100%

<table>
<thead>
<tr>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>76-61-9</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>7732-18-5</td>
<td></td>
</tr>
</tbody>
</table>

4. PHYSICAL DATA
   Appearance: , Varies, amber to blue, Liquid
   Odor: None
   Solubility in Water: Soluble
   pH: 7.5 - 9
   Boiling Point: ca. 100 degC
   Melting Point: N/A
   Vapor Pressure (mmHG): <17 @ 20 deg C
   Vapor Density (Air=1): <1

5. FIRE & EXPLOSION DATA
   Flash Point (Method Used): N/A
   Flammable Limit: LEL: N/A UEL: N/A
   Extinguishing Media: Not a fire hazard
   HMIS Hazard: Health 0 Flammability 0 Reactivity 0
   (Scale: 4=Extreme, 3=High, 2=Moderate, 1=Slight, 0=Least)
   Special Fire Fighting Procedures: N/A
   Unusual Fire & Explosion Hazard: N/A

6. REACTIVITY DATA
   Stability: Stable [Y] Unstable [N]
   Conditions to Avoid: Temperature extremes
Incompatibility (Materials to Avoid): N/A
Hazardous Decomposition Products: N/A

7. HEALTH HAZARD DATA
Toxicity: Non-toxic
Primary Route of Entry: Inhalation [N] Skin [Y] Ingestion [N]
N/A [N]
Target Organ:
  Central Nervous System [N] Teeth and Skeleton [N]
  All Body Organs [N] Pituitary [N] Bone Marrow [N]
  GI System [N] Kidneys [N] Thyroid [N]
  Liver [N] Bladder [N] Lungs [N]
  Unknown [N] Brain [N] Blood [N]
  Heart [N] Eyes [N] Skin [N]

Signs & Symptoms of Exposure: May stain skin.
Medical Condition Aggravated by Exposure: N/A

8. EMERGENCY FIRST AID PROCEDURES
Eye Contact: Flush thoroughly with water. Consult physician.
Skin Contact: Flush with water. Wash skin with soap and water.
Ingestion: Drink water. Consult physician.
Inhalation: N/A

9. SPILL & DISPOSAL PROCEDURES
Spill and Leak: Mop up and flush to drain with water.
Disposal: Flush down drain with excess water. Dispose according to federal, state and local regulations.

10. PRECAUTIONARY MEASURES
In Handling: Eye Protection [Y] Gloves [N] Other [Y] Lab Coat
Use with Adequate Ventilation Only: [N]
Work/Hygienic Practices: Avoid prolonged or repeated contact with skin or clothing.

11. SPECIAL PRECAUTIONS: N/A

Prepared By: I. Penfield                  Date: 05/12/2000