MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

PRODUCT (TRADE) NAME: RLC SERIES, LCS SERIES, REVERSIBLE LIQUID CRYSTAL THERMOMETERS/COATED SHEETS

SUPPLIER: OMEGA ENGINEERING, INC.
P.O. BOX 4047
STAMFORD, CT 06907

EMERGENCY PHONE: (800) 255-3924   (813) 248-0585
BUSINESS PHONE: 203-359-1660

2. COMPOSITION AND INFORMATION ON INGREDIENTS

Product Description: Aqueous coating containing microencapsulated cholesteric liquid crystal mixture.

3. HAZARD INGREDIENTS

Not Established

4. PHYSICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Milky liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>No specific odors</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>100°C</td>
</tr>
<tr>
<td>Melting Point</td>
<td>0°C</td>
</tr>
<tr>
<td>Percent Volatile by Wt</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&lt;1 (BuAc=1)</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Aqueous formation</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No data</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density (air=1)</td>
<td>N/A</td>
</tr>
</tbody>
</table>

5. FIRE AND EXPLOSION HAZARD DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point (°C)</td>
<td>N/A</td>
</tr>
<tr>
<td>Flammable Limits</td>
<td>N/A</td>
</tr>
<tr>
<td>Extinguishing Media</td>
<td>Water spray, CO₂, foam or dry chemical powder</td>
</tr>
<tr>
<td>Special Fire Fighting Procedure</td>
<td>Wear self-contained breathing apparatus and fire and chemical resistant clothing</td>
</tr>
<tr>
<td>Unusual Fire and Explosion Hazards</td>
<td>Emits toxic fume of COx when heated to decomposition.</td>
</tr>
</tbody>
</table>
6. HEALTH HAZARD DATA
Primary Routes of Entry.....Inhalation, ingestion or skin contact
Threshold Limit Value........Not Established
Effects of Exposure.........Eyes- May cause irritation
                          Skin- May cause irritation on prolonged or repeated exposure
                          Inhalation- May cause respiratory irritation
                          Ingestion- May cause nausea, gastrointestinal upset and diarrhea
Medical Conditions Aggra-
vated by Exposure..........Existing skin disorders and rashes
Emergency First Aid........Skin- flush thoroughly with water
                          Eyes- flush with copious amounts of water for at least 15 minutes:
                          get medical attention
                          Inhalation/Ingestion- Get prompt medical attention
Carcinogen;...............NTD: No; IARC: No, OSHA: No

7. REACTIVITY DATA
Stability|Stable
Conditions to Avoid........Fire or excess heat; thermal decomposition
Incompatibility............Strong acids, alkalis and oxidizing agents
Hazardous Polymerization .Will not occur
Hazardous Decomposition
Products....................CO

8. ENVIRONMENTAL PROTECTION PROCEDURES
Spillage........................Avoid inhalation of material. Use appropriate respirator, gloves,
goggles, and protective clothing. Cover spill with vermiculite, pick
up and keep in closed container for disposal. Wash area with soap
and water.
Waste Disposal Method: Consult local, state and federal laws. Dispose in an approved landfill
or send to a licesnse treatment, storage and disposal facility
RCRA Waste Number........N/A

9. SPECIAL PROTECTION INFORMATION
Eye Protection...............Chemical safety goggles
Skin Protection.............Chemical resistant gloves
Respiratory Protection...Approved respirator
Ventilation...................Provide adequate general mechanical and local exhaust
Other Protection............Lab coat

10. SPECIAL PRECAUTIONS
Handling & Storage.........Keep container tightly closed. Store in refrigerator. DO NOT
FREEZE. Protect against physical damage.
Other Precautions When handling large quantities, always wear protective equipment.

PREPARED BY: OMEGA ENGINEERING INC.
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203-359-1660

This Material Safety Data Sheet is offered pursuant to OSHA’s Hazard Communication Standard, 29 CFR, 1910.1200.
Other government regulations must be reviewed for applicability to this product. To the best of OMEGA’s knowledge, the
information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are
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relates only to this specific product. If this product is combined with other materials, all component properties must be
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