

MATERIAL SAFETY DATA SHEET

MSDS-0170
RLC SERIES
REV. DATE:9/27/01

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.
Chemical Formula: Chemical identities withheld as a trade secret under OSHA Hazard Communication Standard 29 CFR 1910.1200 (i) (1)

3. HAZARD INGREDIENTS

Not Established

4. PHYSICAL DATA

Appearance:	Milky liquid	Evaporation Rate:	<1 (BuAc=1)
Odor:	No specific odors	Solubility in Water:	Aqueous formation
Boiling Point:	100°C	Flash Point:	No data
Melting Point:	0°C	Specific Gravity:	N/A
Percent Volatile by Wt:	<1%	Vapor Density (air=1):	N/A

5. FIRE AND EXPLOSION HAZARD DATA

Flash Point (°C)	N/A
Flammable Limits	N/A
Extinguishing Media	Water spray, CO ₂ , foam or dry chemical powder
Special Fire Fighting Procedure	Wear self-contained breathing apparatus and fire and chemical resistant clothing
Unusual Fire and Explosion Hazards	Emits toxic fume of CO _x when heated to decomposition.

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_x

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 licenses 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 Precautios When handling large quantities, **always** wear protective equipment.

PREPARED BY:

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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 not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.