

SAFETY DATA SHEET SC100 CHOLESTERIC LIQUID CRYSTAL INK

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MSDS048 Revision 2 Revision Date 05/29/2015

		Revision Date	05/29/2015	
1. PRODUCT AND COMPANY IDENT	TIFICATION			
Product name	SC100 Cholesteric Liquid Crystal Ink			
Additional Names	None			
Description	Aqueous based ink containing encapsulated cholesteric liquid crystal.			
Intended Use	Temperature measurement and thermal mapping			
_				
Company	LCR Hallcrest			
	1911 Pickwick Lane			
	Glenview			
	IL 60026 USA			
Web	www.hallcrest.com			
Telephone	+1 847 998 8580			
Fax Email	+1 847 998 6866			
	sales@hallcrest.com			
Emergency telephone number	Chemtel Domestic: 800-255-3924			
number	Intl: +01-813-248-0585			
2. HAZARDS IDENTIFICATION.				
GHS Classification	No significant hazard			
GHS Label Elements				
Pictorgrams	No significant hazard			
Signal Word	No significant hazard			
Hazard Statements	No significant hazard			
Precautionary Statement	No significant hazard			
Classification 1994/45/EC	No significant hazard			
3. COMPOSITION / INFORMATION ON INGREDIENTS.				
Hazardous ingredients	Classification	Conc.	CAS	
		Conc. N/A	CAS N/A	
Hazardous ingredients	Classification			
Hazardous ingredients None 4. FIRST AID MEASURES	Classification N/A			
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5. FIRE FIGHTING MEASURES Extinguishing Media Use extinguishing media appropriate to the surrounding fire conditions. Specific hazards arising from Burning produces irritating, toxic and obnoxious fumes. the chemical Special protective actions for Wear suitable respiratory equipment when necessary. fire-fighters 6. ACCIDENTAL RELEASE MEASURES **Personal Precautions, protective** Ensure adequate ventilation of the working area equipment and emergency procedures **Environmental Precautions** Do not allow product to enter drains. Prevent further spillage if safe. Methods and material for Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labeled containers for containment and cleaning up disposal. Clean spillage area thoroughly with plenty of water. 7. HANDLING AND STORAGE Avoid contact with eyes and skin. Ensure adequate ventilation of the working Individual protection measures area. Adopt best Manual Handling considerations when handling, carrying and dispensing. Keep containers tightly closed. Store in correctly labeled containers. Store in a Conditions for safe storage, including cool area but do not freeze. incompatibilities: 8. EXPOSURE CONTROLS / PERSONAL PROTECTION Engineering measures Engineering measures Ensure adequate ventilation of Ensure adequate ventilation of the working area. the working area. Hand protection Hand protection Chemical resistant gloves (PVC) Chemical resistant gloves (PVC) 9. PHYSICAL AND CHEMICAL PROPERTIES Appearance Liquid. Colors Tan. Odor Mild. Odor threshold N/A рΗ N/A **Melting Point/Freezing Point** No testing available. Initial Boiling Point and 100°C **Boiling Range** Flash Point No testing available. Evaporation rate No testing available. Flammability No testing available. Upper/Lower Flammability or No testing available. **Explosive Limits** Vapor Pressure No testing available. Solubility miscible in water. **10. STABILITY AND REACTIVITY** Reactivity Stable under normal conditions. **Chemical Stability** Stable under normal conditions. Possibility of hazardous No Significant Hazard. reactions Conditions to avoid No Significant Hazard. Incompatible materials No Significant Hazard. Hazardous Decomposition No Significant Hazard. Products **11. TOXICOLOGICAL INFORMATION Toxilogical Information** No Hazardous Components

Skin corrosion/irritation No test data available

Serious eye damage/irritation	No test data available
Respiratory or skin sensitization	No test data available
Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeat exposure Aspiration hazard	No test data available No test data available

12. ECOLOGICAL INFORMATION			
Persistence and degradability	No data available		
Bioaccumulative potential	No data available		
Mobility in soil	No data available		
Other adverse effects	None		
13. DISPOSAL CONSIDERATIONS			
General information	Dispose of in compliance with all local and national regulations.		
14. TRANSPORT INFORMATION			
UN Numbe	er This product is not classified as dangerous for carriage.		
UN Proper Shipping Nam	This product is not classified as dangerous for carriage.		
Transport Hazard class(es	s) This product is not classified as dangerous for carriage.		
Packing Group (if applicable	e) This product is not classified as dangerous for carriage.		
Environmental Hazard	Is This product is not classified as dangerous for carriage.		
Special Precautions for the Use	er This product is not classified as dangerous for carriage.		
DO	This product is not classified as dangerous for carriage.		
IMD	G This product is not classified as dangerous for carriage.		
IAT	A This product is not classified as dangerous for carriage.		

15. REGULATORY INFORMATION

WEE - (2002/96/EC) and RoHS Directive (2002/95/EC) our products as per attached schedule are fully compliant and do not contain any listed heavy metals, PBB or PBDE at levels exceeding 1000pm specified in the directive. Typical levels have been measured at 1ppm or less.

16. OTHER INFORMATION	
Revision	Revision 2: Formatting - Major revision to include the requirements of the HCS/HazCom 2012 Final Rule.
Further information	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.
HMIS LABELLING	HEALTH 1, FLAMMABILITY 0, PHYSICAL HAZARD 0. PERSONAL PROTECTION: C.