

## SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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### SPRAYABLE CHIRAL NEMATIC

Revision 2

Revision date 2016-06-15

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

**Product name** SPRAYABLE CHIRAL NEMATIC

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Description** Aqueous based ink containing acrylic resins.

##### 1.3. Details of the supplier of the safety data sheet

<b>Company</b>	LCR Hallcrest Ltd
<b>Address</b>	Riverside Buildings Dock Road Connah's Quay Flintshire CH5 4DS United Kingdom
<b>Web</b>	www.lcrhallcrest.com
<b>Telephone</b>	+44 (0) 1244 817107
<b>Fax</b>	+44 (0)1244 818502
<b>Email</b>	sales@lcrhallcrest.com

##### Intended use

Temperature measurement and thermal mapping.

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

**Main hazards** No Significant Hazard

##### 2.2. Label elements

**Risk phrases** No Significant Hazard

#### SECTION 3: Composition/information on ingredients

##### Further information

Proprietary information. There are no hazardous components present.

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

<b>Inhalation</b>	Move the exposed person to fresh air.
<b>Eye contact</b>	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
<b>Skin contact</b>	Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
<b>Ingestion</b>	DO NOT INDUCE VOMITING. Seek medical attention if irritation or symptoms persist.

##### 4.2. Most important symptoms and effects, both acute and delayed

**Inhalation** May cause irritation to respiratory system.

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## 4.2. Most important symptoms and effects, both acute and delayed

Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin.
Ingestion	May cause irritation to mucous membranes.

## 4.3. Indication of any immediate medical attention and special treatment needed

Inhalation	No Significant Hazard.
Eye contact	May cause irritation to eyes. Bathe the eye with running water for 15 minutes.
Skin contact	No Significant Hazard.
Ingestion	If you feel unwell, seek medical advice (show the label where possible).

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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### 5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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### 5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

	Ensure adequate ventilation of the working area.
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### 6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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### 6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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### 6.4. Reference to other sections

	For disposal see section 13.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.
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### 7.2. Conditions for safe storage, including any incompatibilities

	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.
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### Suitable packaging

	Plastic containers. When using do not eat, drink or smoke.
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## SECTION 8: Exposure controls/personal protection

### 8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Wear protective clothing.
Eye / face protection	In case of splashing, wear:.. Approved safety goggles.

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## 8.2. Exposure controls

Skin protection - Handprotection	Chemical resistant gloves (PVC).
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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Tan.
Odour	Mild
Initial boiling point	100

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

	No Significant Hazard.
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### 10.2. Chemical stability

	Stable under normal conditions.
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### 10.3. Possibility of hazardous reactions

	No Significant Hazard.
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### 10.4. Conditions to avoid

	No Significant Hazard.
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### 10.5. Incompatible materials

	No Significant Hazard.
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### 10.6. Hazardous decomposition products

	No data is available on this product.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

	No data is available on this product.
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### Further information

	No Significant Hazard.
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## SECTION 12: Ecological information

### Further information

	No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention. Water dissolved constituents biodegradable.
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## SECTION 13: Disposal considerations

### General information

	Dispose of in compliance with all local and national regulations.
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## SECTION 14: Transport information

### 14.1. UN number

	The product is not classified as dangerous for carriage.
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### 14.2. UN proper shipping name

	The product is not classified as dangerous for carriage.
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### 14.3. Transport hazard class(es)

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## 14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

## 14.4. Packing group

The product is not classified as dangerous for carriage.

## 14.5. Environmental hazards

The product is not classified as dangerous for carriage.

## 14.6. Special precautions for user

The product is not classified as dangerous for carriage.

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

## Further information

The product is not classified as dangerous for carriage.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

## Further information

For this product a chemical safety assessment was not carried out.

## SECTION 16: Other information

## Further information

HMIS LABELLING	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.
	All components are TSCA compliant.
	HEALTH 1., FLAMMABILITY 0., PHYSICAL HAZARD 0. PERSONAL PROTECTION : C.