
SAFETY DATA SHEET

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

- Use of the substance/mixture: Manufacture of temperature-indicating products and temperature-sensitive decorative effects.

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: LCR Hallcrest
- Address of Manufacturer: Riverside Buildings,
Dock Road,
Connah's Quay,
Deeside,
Flintshire, CH5 4DS,
Wales. U.K.
- Telephone: +44 (0) 1244 817107
- Email: Sales@lcrhallcrest.com

1.4 Emergency telephone number

- Emergency Telephone: +44 (0) 1244 818348

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- CLP:
- Not classified as hazardous for supply

2.2 Label elements

- Signal Word:
- No hazard expected under normal conditions of use
- Hazard statements
Not Classified
- Precautionary statements
Do not get in eyes, on skin, or on clothing.

2.3 Other hazards

- No hazard expected under normal conditions of use

SECTION 3: Composition/information on ingredients

3.2 Mixtures

- There are no hazardous components present.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Contact with eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Contact with skin
IF ON SKIN: Gently wash with plenty of soap and water.
- Ingestion
Do not induce vomiting
Get medical advice/attention if you feel unwell.
- Inhalation
If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

- May cause irritation
- May cause nausea/vomiting

4.3 Indication of any immediate medical attention and special treatment needed

- May cause irritation
- Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
- Seek medical attention if irritation persists
- If swallowed seek medical advice immediately and show this container or label
- Move the exposed person to fresh air. Seek medical attention.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

5.2 Special hazards arising from the substance or mixture

- No information available

5.3 Advice for firefighters

- Wear suitable respiratory protection

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Ensure adequate ventilation
- Wear protective clothing as per section 8

6.2 Environmental precautions

- No special requirements

6.3 Methods and material for containment and cleaning up

SECTION 6: Accidental release measures (....)

- No special precautions are required for this product

6.4 Reference to other sections

- For disposal refer to section 13.
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SECTION 7: Handling and storage

7.1 Precautions for safe handling

- [In case of inadequate ventilation] wear respiratory protection.
- Do not breathe spray/mists

7.2 Conditions for safe storage, including any incompatibilities

- Keep in a cool place away from frost

7.3 Specific end use(s)

- No information available
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SECTION 8: Exposure controls/personal protection



8.1 Control parameters

- No information available

8.2 Exposure controls

- Ensure adequate ventilation
 - The usual precautions for handling chemicals should be observed
 - Wear protective gloves in cases of prolonged contact (DIN EN 374).
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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Liquid, pale straw
- Odour: Characteristic odour
- pH: Not available
- Boiling Point/Range: Not available
- Flash point - not applicable
- Specific gravity - not known
- Fat solubility - not known
- Partition coefficient : n-Octanol/water - not known
- Solubility in water: Miscible with water

9.2 Other information

SECTION 10: Stability and reactivity

10.1 Reactivity

- No special requirements

10.2 Chemical stability

- Stable

10.3 Possibility of hazardous reactions

- This article is considered stable under normal conditions

10.4 Conditions to avoid

- No special requirements

10.5 Incompatible materials

- No special requirements

10.6 Hazardous decomposition products

- No information available
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SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Acute toxicity: No data is available on this product.
 - Mixtures: No significant hazard
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SECTION 12: Ecological information

12.1 Toxicity

- No information available

12.2 Persistence and degradability

- No information available

12.3 Bioaccumulative potential

- No information available

12.4 Mobility in soil

- miscible with water

12.5 Results of PBT and vPvB assessment

- No information available

12.6 Other adverse effects

- On available data, substance is not harmful to the environment
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SECTION 13: Disposal considerations

Avoid release to the environment.

SECTION 13: Disposal considerations (....)

13.1 Waste treatment methods

- Absorb spillage in inert material and shovel up
 - Not hazardous
 - Disposal should be in accordance with local, state or national legislation
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SECTION 14: Transport information

Not classified as hazardous for transport

14.1 UN number

- UN No.: Not applicable

14.2 Proper Shipping Name

- Proper Shipping Name: Not applicable

14.3 Transport hazard class(es)

- Hazard Class: Not applicable

14.4 Packing group

- Packing Group: Not applicable

14.5 Environmental hazards

- Not Classified

14.6 Special precautions for user

- Not Classified

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

- Not Classified
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SECTION 15: Regulatory information

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

- COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No1907/2006 of the European Parliament and of the Council on 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.

15.2 Chemical safety assessment

- A chemical safety assessment (CSA) for this product has not yet been completed
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SECTION 16: Other information

This information supplied in this Safety Data Sheet is designed only as guidance for the safe use and storage of the product. This information is correct to the best of our knowledge and belief at the date of

SECTION 16: Other information (....)

publication however no guarantee is made to its accuracy. This information only relates 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.

--- end of safety datasheet ---
