

SAFETY DATA SHEET

Microencapsulated TLC Slurries - Chiral Nematic

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MSDS037 Revision 5 Revision Date 08/03/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Microencapsulated TLC Slurries – Chiral Nematic

Additional Names None

Description Aqueous based slurry containing encapsulated chiral liquid crystal.

Intended Use Temperature measurement and thermal mapping

Company LCR Hallcrest

1911 Pickwick Lane

Glenview IL 60026 USA

Web www.hallcrest.com +1 847 998 8580

Fax +1 847 998 6866

Email sales@hallcrest.com Chemtel Domestic:

 telephone number
 Chemtel
 Domestic:
 800-255-3924

 Intt:
 +01-813-248-0585

2. HAZARDS IDENTIFICATION.

GHS Classification No significant hazard

GHS Label Elements

Pictorgrams
Signal Word
Hazard Statements
Precautionary Statement
Classification 1994/45/EC
No significant hazard
No significant hazard
No significant hazard
No significant hazard

3. COMPOSITION / INFORMATION ON INGREDIENTS.			
Hazardous ingredients	Classification	Conc.	CAS
None	N/A	N/A	N/A

4. FIRST AID MEASURES

Description of first aid measures

Skin contact

May cause irritation to skin. Wash off immediately with plenty of soap and water. Remove

contaminated clothing. Seek medical attention if irritation or symptoms persist...

Eye contact

May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the

eyelids open. Seek medical attention if irritation or symptoms persist.

Inhalation May cause irritation to mucous membranes. Move the exposed person to fresh air.

Ingestion May cause irritation to mucous membranes. DO NOT INDUCE VOMITING. Seek medical

attention if irritation or symptoms persist.

Most important symptoms and effect, both acute or delayed.

Skin contact May cause irritation to skin. Wash off immediately with plenty of soap and water. Remove

contaminated clothing. Seek medical attention if irritation or symptoms persist...

Eye contact May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the

eyelids open. Seek medical attention if irritation or symptoms persist.

InhalationIngestionMay cause irritation to mucous membranes. Move the exposed person to fresh air.May cause irritation to mucous membranes. DO NOT INDUCE VOMITING. Seek medical

attention if irritation or symptoms persist.

Indication of any immediate medical attention and special treatment needed.

Skin contact May cause irritation to skin. Wash off immediately with plenty of soap and water. Remove

contaminated clothing. Seek medical attention if irritation or symptoms persist..

Eye contact May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the

eyelids open. Seek medical attention if irritation or symptoms persist.

Inhalation May cause irritation to mucous membranes. Move the exposed person to fresh air.

May cause irritation to mucous membranes. DO NOT INDUCE VOMITING. Seek medical

attention if irritation or symptoms persist.

5. FIRE FIGHTING MEASURES

Extinguishing Media Use extinguishing media appropriate to the surrounding fire conditions.

Specific hazards arising from

the chemical

Burning produces irritating, toxic and obnoxious fumes.

Special protective actions for

fire-fighters

Wear suitable respiratory equipment when necessary.

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

Conditions for safe storage, including

incompatibilities:

Keep containers tightly closed. Store in correctly labeled containers. Store in a

cool area but do not freeze.

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 Chemical resistant gloves (PVC)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Liquid. Colors Tan. Odor Mild. Odor threshold 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

reactions

No Significant Hazard.

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

No test data available No test data available

12. ECOLOGICAL INFORMATION

Persistence and

Aspiration hazard

No data available degradability

Bioaccumulative potential Mobility in soil No data available

Other adverse effects

No data available None

13. DISPOSAL CONSIDERATIONS

General information

Dispose of in compliance with all local and national regulations.

14. TRANSPORT INFORMATION

UN Number UN Proper Shipping Name Transport Hazard class(es) Packing Group (if applicable) **Environmental Hazards**

This product is not classified as dangerous for carriage. This product is not classified as dangerous for carriage. This product is not classified as dangerous for carriage. This product is not classified as dangerous for carriage.

This product is not classified as dangerous for carriage.

Special Precautions for the User DOT

This product is not classified as dangerous for carriage. This product is not classified as dangerous for carriage. **IMDG** This product is not classified as dangerous for carriage. This product is not classified as dangerous for carriage. IATA

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 5: 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.