



MATERIAL SAFETY DATA SHEET

THERMOCHROMIC WATER BASED SCREEN INK

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MSDS011 Revision 1
Revision date 3/18/2009

1. PRODUCT AND COMPANY IDENTIFICATION

Product name THERMOCHROMIC WATER BASED SCREEN INK
Description Temperature sensitive, color change ink.
Company LCR Hallcrest
1820 Pickwick Lane
Glenview
IL 60026
Telephone +1 847 998 8580
Fax +1 847 998 6866
Emergency telephone number +1 847 998 8580
Intended use Manufacture of temperature indicating devices.

2 HAZARDS IDENTIFICATION.

Statement of Hazard

Properties

Odor Characteristic

Main hazards May cause sensitization by skin contact.

3 . COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients

	Conc.	CAS
Formaldehyde... % (Formaldehyde)	0-0.5%	50-00-0
4,4'-Isopropylidenediphenol	1-10%	80-05-7

4. FIRST AID MEASURES

Skin contact Irritating to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.

Eye contact Irritating to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.

Inhalation Irritating to respiratory system. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air. Seek medical attention.

Ingestion Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITING.

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5. FIRE FIGHTING MEASURES

Extinguishing media	Carbon oxides.
Fire hazards	Burning produces irritating, toxic and obnoxious fumes.
Protective equipment	Wear suitable respiratory equipment when necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation of the working area. Wear suitable protective equipment.
Environmental precautions	Do not allow product to enter drains. Prevent further spillage if safe.
Clean up methods	Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labeled containers for disposal. Clean spillage area thoroughly with plenty of water.

7. HANDLING AND STORAGE

Handling	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.
Storage	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labeled containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Formaldehyde...% (Formaldehyde)	ACGIH TLV TWA: - Notations: SEN; A2 OSHA PEL 8hr TWA mg m3: -	ACGIH TLV STEL: C 0.3 ppm OSHA PEL 8hr TWA ppm: - Skin Designation: -
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Engineering measures	Ensure adequate ventilation of the working area.
Respiratory protection	Wear: Suitable respiratory equipment.
Hand protection	Chemical resistant gloves (PVC)
Eye protection	Approved safety goggles.
Protective equipment	Wear chemical protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Viscous liquid.
Color	Various colors according to type.
Odor	Characteristic.
Boiling point	100°C
Flammability limits	N/A
Explosive	N/A

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
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11. TOXICOLOGICAL INFORMATION

Acute toxicity	May cause sensitization by skin contact.
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12. ECOLOGICAL INFORMATION

Further information	No data is available on this product.
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13. DISPOSAL CONSIDERATIONS

General information	Dispose of in compliance with all local and national regulations.
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14. TRANSPORT INFORMATION

Further Information The product is not classified as dangerous for carriage.

15. REGULATORY INFORMATION

Inventories

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
Formaldehyde...%	Y	Y	Y 0.1	Y	N	Y	Y	Y 500	Y 100
4,4'-Isopropylidenediphenol	Y	Y	Y 1.0	N	N	N	N	N	N

16. OTHER INFORMATION

Statement of Hazard

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.

Revision This document differs from the previous version in the following areas:
16 - hMIS LABELLING.

HMIS LABELLING HEALTH 1, FLAMMABILITY 0, PHYSICAL HAZARD 0