



MATERIAL SAFETY DATA SHEET

Thermochromic WB Gravure Ink – Bis A Free

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MSDS029 Revision 2
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1. PRODUCT AND COMPANY IDENTIFICATION

Product name Thermochromic WB Gravure Ink – Bis A Free
Description Water based, temperature sensitive, color change ink.
Company LCR Hallcrest
1911 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

Color Various colors
Odor Characteristic
State Liquid
Main Hazards May cause sensitization by skin contact.

3. COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients

67/548/EEC / 1999/45/EC

	Conc.	CAS#
Formaldehyde...% (Formaldehyde)	0-0.5%	50-00-0

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 the 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. DO NOT INDUCE VOMITING. Seek medical attention if irritation or symptoms persist.

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 Limit Values

Formaldehyde...%	ACGIH TLV TWA: -	ACGIH TLV STEL: C 0.3 ppm
(Formaldehyde)	Notations: SEN; A2	OSHA PEL 8hr TWA ppm: -
	OSHA PEL 8hr TWA	
	mg m3: -	Skin Designation: -

Appropriate engineering controls Ensure adequate ventilation of the working area.

Individual protection measures Wear chemical protective clothing.

Eye / face protection Approved safety goggles.

Skin protection – Hand protection Chemical resistant gloves (PVC)

Respiratory protection Wear: Suitable respiratory equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description Liquid

Color Various colors

Odor Characteristic

Boiling point 100C

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute toxicity May cause sensitization by skin contact.

Formaldehyde...%	Inhalation Rat LC50/2H h: 250 ppm	Oral Rat LD50: 500 mg/kg
	Inhalation Mouse LC50/2H h: 505 mg/m3	Oral Mouse LD50: 500 mg/kg
	Dermal Rabbit LD50: 270 mg/kg	

12. ECOLOGICAL INFORMATION

Further information No data is available on this product.

13. DISPOSAL CONSIDERATIONS

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

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

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.

TSCA All components are TSCA compliant.

HMIS LABELLING HEALTH 1, FLAMMABILITY 0, PHYSICAL HAZARD 1, PERSONAL PROTECTION: B