

SAFETY DATA SHEET Thermochromic WB Gravure Ink – Bis A Free

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MSDS029 Revision 4 Revision Date 06/15/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Thermochromic WB Gravure Ink – Bis A Free

Additional Names None

Description Temperature sensitive, colour change ink.

Company LCR Hallcrest

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Glenview IL 60026 USA

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2. HAZARDS IDENTIFICATION.

GHS Classification Skin Sens. 1: H317;

GHS Label Elements Pictorgrams



Signal Word Hazard Statements Precautionary Statement Warning

H317 - May cause an allergic skin reaction.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 - IF ON SKIN: Wash with plenty of water/.

P321 - Specific treatment (see on this label).

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P501 - Dispose of contents/container to

3. COMPOSITION / INFORMATION ON INGREDIENTS.									
Hazardous ingredients	Classification	Conc.	CAS						
Formaldehyde	Carc. 1B: H350; Muta. 2: H341; Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301; Skin Corr. 1B: H314; Skin Sens. 1: H317;	<0.5%	50-0-0						
Isopropanol	Flam. Liq. 2: H225; Eye Irrit.2: H319; STOT SE 3: H336;	1-10%	67-63-0						

4. FIRST AID MEASURES

Description of first aid measures

Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek

Skin contact medical attention if irritation or symptoms persist.

Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical Eye contact

attention if irritation or symptoms persist.

Inhalation Move the exposed person to fresh air. Seek medical attention.

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

Most important symptoms and effect, both acute or delayed.

Skin contact May cause sensitisation by skin contact. Avoid contact with skin.

Eye contact Irritating to eyes.

Inhalation Irritant, moderate respiratory.

Ingestion Ingestion may cause nausea and vomiting. Indication of any immediate medical attention and special treatment needed

Skin contact May cause sensitisation by skin contact.

Eye contact Irritating to eyes. Seek medical attention if irritation or symptoms persist.

Inhalation Coughing, difficulty in breathing.

Ingestion If you feel unwell, seek medical advice (show the label where possible). Ingestion may cause

nausea and vomiting

5. FIRE FIGHTING MEASURES

Extinguishing Media Carbon oxides

procedures

Specific hazards arising from

Burning produces irritating, toxic and obnoxious fumes. the chemical

Special protective actions for

Wear suitable respiratory equipment when necessary. fire-fighters

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, protective equipment and emergency

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.

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.

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

dispensing.

Conditions for safe storage, including

incompatibilities:

Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in

correctly labelled containers.

Apart from the uses mentioned in section 1.2 no other specific uses are Specific end uses:

stipulated.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

WEL 8-hr limit ppm: 2 Formaldehyde WEL 8-hr limit mg/m3: 2.5 WEL 15 min limit mg/m3: 2.5 WEL 15 min limit ppm: 2

WEL 8-hr limit mg/m3 total - inhalable dust: WEL 15 min limit mg/m3 total - inhalable dust: WEL 8-hr limit mg/m3 total - respirable dust: WEL 15 min limit mg/m3 total -respirable dust:

WEL 8-hr limit ppm: 400 WEL 8-hr limit mg/m3: 999

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Isopropanol WEL 15 min limit ppm: 500 WEL 15 min limit mg/m3: 1250

WEL 8-hr limit mg/m3 total: inhalable dust: WEL 15 min limit mg/m3 total - inhalable dust: WEL 15 min limit mg/m3 total - respirable dust: WEL 15 min limit mg/m3 total - respirable dust:

Control Parameters

Appropriate Engineering Controls Ensure adequate ventilation of the working area.

Individual Protection Measures

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

Appearance Liquid

Colors Various colors according to type.

Odor Characteristic

Odor threshold N/A

pH N/A

Melting Point/Freezing Point Starts at 100°C

Initial Boiling Point and Boiling Range No testing available.

Flash Point
Evaporation rate
Flammability
Upper/Lower Flammability or

Explosive Limits
Vapor Pressure
No testing available.
No testing available.

Solubility Immiscible

% Volatiles (by volume) N/M – tested according to EPA test method 24.

10. STABILITY AND REACTIVITY

Reactivity No data available.

Chemical Stability Stable under normal conditions.

Possibility of hazardous No Significant Hazard.

reactions

Conditions to avoid Protect from frost.

Incompatible materials Alkalis.

Hazardous Decomposition Formaldehyde may be generated and other harmful fumes.

Products

11. TOXICOLOGICAL INFORMATION

Toxilogical Information

Formaldehyde Inhalation Rat LC50/2H h: 250 ppm Oral Rat LD50: 500 mg/kg
Oral Mouse LD50: 500 mg/kg Inhalation Mouse LC50/2H h: 505 mg/m3

Oral Mouse LD50: 500 mg/kg
Dermal Rabbit LD50: 270 mg/kg

Isopropanol Oral Rat LD50: 5000 mg/kg Oral Mouse LD50: 3600 mg/kg Dermal Rabbit LD50: 12800 mg/kg

Skin corrosion/irritation No test data available

Serious eye
damage/irritation

No test data available

Respiratory or skin No test

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
No test data available
No test data available

Aspiration hazard Likely routes to exposure

No test data available

12. ECOLOGICAL INFORMATION

Toxicity Formaldehyde Daphnia 1 EC50 - 54mg/l

Persistence and

No data available degradability Bioaccumulative potential No data available

Mobility in soil No data available

Other adverse effects Harmful to aquatic organisms

13. DISPOSAL CONSIDERATIONS

General information Dispose of in compliance with all local and national regulations. Do not empty into drains,

dispose of this material and its container at hazardous or special waste

collection point.

14. TRANSPORT INFORMATION

UN Number This product is not classified as dangerous for carriage. **UN Proper Shipping Name** This product is not classified as dangerous for carriage. Transport Hazard class(es) This product is not classified as dangerous for carriage. Packing Group (if applicable) This product is not classified as dangerous for carriage. This product is not classified as dangerous for carriage. **Environmental Hazards** This product is not classified as dangerous for carriage. Special Precautions for the User DOT This product is not classified as dangerous for carriage.

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

Further Information

Further information

The product is not classified as dangerous for carriage.

15. REGULATORY INFORMATION											
Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304		
Formaldehyde	Υ	Υ	Y0.1	Υ	N	Υ	Υ	Y 500	Y 100		
Isopropanol	Y	N	Y1.0	N	N	N	N	N	N		

16. OTHER INFORMATION

Revision

Revision 4: 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.

Maximum content of VOC 'HMIS LABELLING

HEALTH 1, FLAMMABILITY 1, PHYSICAL HAZARD 0, PERSONAL

PROTECTION: E.