

## SAFETY DATA SHEET Photochromic Powder – Bis A Free

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MSDS142 Revision 1  
Revision Date 06/10/2015

### 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product name</b>	Photochromic Powder		
<b>Additional Names</b>	None		
<b>Description</b>	Microencapsulated Photochromic Dye		
<b>Intended Use</b>	Manufacture of photochromic inks and coatings.		
<b>Company</b>	LCR Hallcrest 1911 Pickwick Lane Glenview IL 60026 USA		
<b>Web</b>	<a href="http://www.hallcrest.com">www.hallcrest.com</a>		
<b>Telephone</b>	+1 847 998 8580		
<b>Fax</b>	+1 847 998 6866		
<b>Email</b>	<a href="mailto:sales@hallcrest.com">sales@hallcrest.com</a>		
<b>Emergency telephone number</b>	Chemtel	Domestic:	800-255-3924
		Intl:	+01-813-248-0585

### 2. HAZARDS IDENTIFICATION.

**GHS Classification** Skin Sens. 1: H317 - May cause an allergic skin reaction.  
Carcinogen 1B: H350 – May cause cancer.

**GHS Label Elements**  
**Pictograms**



**Signal Word**  
**Hazard Statements**

Danger  
Skin Sens. 1: H317 - May cause an allergic skin reaction.  
Carcinogen 1B: H350 – May cause cancer

**Precautionary Statement**

P201 – Obtain special instructions before use  
P202: Do not handle until all safety precautions have been read and understood.  
P261: Avoid breathing dust/fumes/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.  
P281 – Use personal protective equipment as required.  
P302+P352: IF ON SKIN: Wash with plenty of water  
P308 + P313: IF exposed or concerned: Get medical advice/attention.  
P310: Immediately call a POISON CENTER/doctor  
P321: Specific treatment (see ... on this label)  
P333+P313 - If skin irritation or a rash occurs: Get medical advice/attention.  
P363 - Wash contaminated clothing before reuse.  
P405 - Store locked up.  
P501 – Dispose of contents/container according to appropriate regulations.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients	Classification	Conc.	CAS
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<b>Formaldehyde</b>	Flam. Liq. 4; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1; Muta. 2; Carc. 1A; Quatic Acute 3; H227, H301+H311_H331, H314, H317, H318, H341, H350, H402	<0.5%	50-0-0
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**4. FIRST AID MEASURES**

**Description of first aid measures**

- Skin contact** Wash exposed areas with soap and water. Consult a physician if irritation persists.
- Eye contact** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. continue rinsing.
- Inhalation** Move the exposed person to fresh air. Seek medical attention.
- Ingestion** If victim is conscious, give liquids and induce vomiting.

**Most important symptoms and effect, both acute or delayed.**

- Skin contact** Irritating to the skin.
- Eye contact** Irritating to the eyes. Excess blinking and tear production marked excess redness and swelling of the conjunctiva.
- Inhalation** Irritating to respiratory system. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
- Ingestion** Ingestion may cause nausea, abdominal discomfort, and vomiting.

**Indication of any immediate medical attention and special treatment needed.**

- Inhalation** Coughing, difficulty in breathing. If breathing is difficult give oxygen.
- Skin contact** May cause sensitisation by skin contact. Wash off immediately with plenty of soap and water.
- Eye contact** Seek medical attention if irritation or symptoms persist.

**5. FIRE FIGHTING MEASURES**

**Extinguishing Media** Use as appropriate: carbon dioxide (CO2), dry chemical, foam, water spray.

**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 equipment and emergency procedures** Ensure adequate ventilation of the working area. Wear eye and skin protection.

**Environmental Precautions** Do not allow product to enter drains. Avoid discharge to natural waters.

**Methods and material for containment and cleaning up** Absorb with inert, absorbent material. Transfer to suitable, labeled containers for disposal.

**7. HANDLING AND STORAGE**

**Individual protection measures** Avoid contact with eyes and skin. Ensure adequate ventilation of the working 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.

**Specific end uses:** [SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC18] Ink and toners; [PROC5] Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact); [ERC2] Formulation of preparations; [AC8] Paper articles;

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Limits**

Formaldehyde

**ACGIH TLV TWA:** -  
**Notations:** SEN; A2  
**OSHA PEL 8hr TWA Mg M3:** -

**ACGIH TLV STEL:** C 0.3ppm  
**OSHA PEL 8hr TWA ppm:** -  
**Skin Designator:** -

**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** Impervious (Neoprene) Gloves

**Respiratory protection** Wear a MSHA/NIOSH approved (or equivalent) half-mask air purifying respirator.

**Environmental Exposure Controls** Appropriate local exhaust ventilation is required.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** Powder  
**Colors** Various  
**Odor** No characteristic odor  
**Odor threshold** N/A  
**pH** N/A  
**Melting Point/Freezing Point** Starts at 250°C  
**Initial Boiling Point and Boiling Range** No testing available.  
**Flash Point** No testing available.  
**Evaporation rate** No testing available.  
**Flammability** No testing available.  
**Upper/Lower Flammability or Explosive Limits** No testing available.  
**Vapor Pressure** No testing available.  
**Solubility** Immiscible  
**% Volatiles (by volume)** N/M – tested according to EPA test method 24.

**10. STABILITY AND REACTIVITY**

**Reactivity** Avoid sparks, flames, heat and sources of ignition.  
**Chemical Stability** Stable under normal conditions.  
**Possibility of hazardous reactions** Burning can product the following combustion products: N/M  
**Conditions to avoid** No Significant Hazard.  
**Incompatible materials** Strong oxidizing agents.  
**Hazardous Decomposition Products** Cannot Occur

**11. TOXICOLOGICAL INFORMATION**

**Toxilogical Information**

**Formaldehyde** Oral Mouse LD50: 42mg/kg Skin Rabbit LD50: 270 mg/kg  
 Inhalation Rat LD50: 250ppm

**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** No test data available

**Carcinogenicity** No test data available

**Reproductive toxicity** No test data available

**STOT-single exposure** No test data available

**STOT-repeat exposure** No test data available

**Aspiration hazard** No test data available

**Likely routes to exposure**

**12. ECOLOGICAL INFORMATION**

**Toxicity** Formaldehyde Daphnia 1 EC50 – 54mg/l

**Persistence and degradability** No data available

**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.

**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.

**Environmental Hazards** This product is not classified as dangerous for carriage.

**Special Precautions for the User** This product is not classified as dangerous for carriage.

**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	Y	Y	Y0.1	Y	N	Y	Y	Y 500	Y 100

**16. OTHER INFORMATION**

**Revision** Revision 1: Initial Revision.

**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.