

## SAFETY DATA SHEET Photochromic Dye – Yellow 1

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MSDS089 Revision 2  
Revision Date 06/10/2015

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** Photochromic Dye – Yellow 1  
**Additional Names** None  
**Description** Yellow Photochromic Dye  
**Intended Use** Manufacture of UV sensitive inks and coatings.

**Company** LCR Hallcrest  
 1911 Pickwick Lane  
 Glenview  
 IL 60026 USA

**Web** www.hallcrest.com  
**Telephone** +1 847 998 8580  
**Fax** +1 847 998 6866  
**Email** [sales@hallcrest.com](mailto:sales@hallcrest.com)

**Emergency telephone number** Chemtel Domestic: 800-255-3924  
 Intl: +01-813-248-0585

### 2. HAZARDS IDENTIFICATION.

**GHS Classification** COMBUSTIBLE DUSTS

#### GHS Label Elements

**Pictograms**  
**Signal Word** Warning  
**Hazard Statements** May form combustible dust concentrations in air.  
**Precautionary Statement**

### 3. COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients	Classification	Conc.	CAS
Photocol Generic Dye NAEM	None	>95%	Not available
Undefined Impurities	None	<5%	Not available

### 4. FIRST AID MEASURES

#### Description of first aid measures

**Skin contact** Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

**Eye contact** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing.

**Inhalation** Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

**Ingestion** If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

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

**Skin contact** No known significant hazards.

**Eye contact** Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

**Inhalation** Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat, and lungs.

**Ingestion** No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact** Adverse symptoms may include the following: irritation, redness

**Inhalation** Adverse symptoms may include the following: respiratory tract irritation

**Indication of immediate medical attention and special treatment needed, if necessary.**

<b>Notes to Physician</b>	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	No specific treatment.
<b>Protection of first aiders</b>	No action shall be taken involving any personnel risk or without suitable training.

#### 5. FIRE FIGHTING MEASURES

<b>Extinguishing Media</b>	Use dry chemical powder., Do not use water jet.
<b>Specific hazards arising from the chemical</b>	Fine dust clouds may form explosive mixtures with air.
<b>Special protective equipment for fire-fighters</b>	Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
<b>Special protective actions for fire fighters</b>	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
<b>Hazardous thermal decomposition products</b>	Decomposition products may include the following materials: Carbon oxides Nitrogen oxides

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions, protective equipment and emergency procedures</b>	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.
<b>Environmental Precautions</b>	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
<b>Methods and material for containment and cleaning up</b>	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

#### 7. HANDLING AND STORAGE

<b>Individual protection measures</b>	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing
<b>Conditions for safe storage, including incompatibilities:</b>	Do not store above the following temperature: 30°C (86°F). Store in accordance with local regulations. Store in a segregated and approved area. Limit exposure to air and light to preserve product quality. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
<b>Specific end uses:</b>	Keep away from sources of ignition – No smoking
<b>Suitable Packaging:</b>	Plastic Containers

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control Parameters**

**Appropriate Engineering Controls** Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Individual Protection Measures**

**Individual protection measures** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Eye/face protection** showers are close to the workstation location. Safety glasses with side shields

**Skin protection – Hand protection** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Impervious gloves. Nitrile gloves. Butyl rubber gloves. PVC gloves. Viton® gloves.

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

**Environmental Exposure Controls** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable level.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Solid
<b>Colors</b>	Various
<b>Odor</b>	Odorless
<b>Odor threshold</b>	N/A
<b>pH</b>	N/A
<b>Melting Point/Freezing Point</b>	No testing available.
<b>Initial Boiling Point and Boiling Range</b>	No testing available.
<b>Flash Point</b>	No testing available.
<b>Evaporation rate</b>	No testing available.
<b>Flammability</b>	No testing available.
<b>Upper/Lower Flammability or Explosive Limits</b>	10g/m <sup>3</sup>
<b>Vapor Pressure</b>	No testing available.
<b>Solubility</b>	Immiscible
<b>% Volatiles (by volume)</b>	0% (w/w)

**10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	No specific test data related to reactivity available for this product or its ingredients
<b>Chemical Stability</b>	Stable under recommended storage and handling conditions (see Section 7).
<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	Limit exposure to air and light to preserve product quality. When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
<b>Incompatible materials</b>	Reactive or incompatible with the following materials: oxidizing agents, strong alkalis, strong acids.
<b>Hazardous Decomposition Products</b>	Decomposition products may include the following materials: carbon oxides, nitrogen oxides

**11. TOXICOLOGICAL INFORMATION**

**Toxicological Information**



**16. OTHER INFORMATION**

<b>Revision</b>	Revision 2: Major revision to include the requirements of the HCS/HazCom 2012 Final Rule.
<b>Further information</b>	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.
<b>HMIS LABELLING</b>	HEALTH 1, FLAMMABILITY 0, PHYSICAL HAZARD 0