



MATERIAL SAFETY DATA SHEET

Photochromic Powder

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MSDS084 Revision 1
Revision Date 6/9/2010

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Photochromic Microcapsule Powder
Description Microencapsulated Photochromic Dye
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 photochromic inks and coatings.

2 HAZARDS IDENTIFICATION.

Statement of Hazard N/A
Properties Color Lightly colored powder
State Powder

3. COMPOSITION / INFORMATION ON INGREDIENTS.

Material	Wt%	CAS #	ECS #	Symbol	R-Phrases
Formaldehyde	0-0.5%	50-00-0	--	--	--
4,4-Isopropylidenediphenol (Used in Yellow #16)	1-5%	80-05-7	201-245-8	X (Harmful / Irritant)	R36/37/38-43

4. FIRST AID MEASURES

Exposure Limit(s) None established by ACGIH or OSHA
Skin contact No adverse harmful effects anticipated. Wash exposed areas with soap and water. See a physician.
Skin absorption None currently known.

Eye contact	Can cause irritation, experienced as discomfort or pain, excess blinking and tear production, marked excess redness and swelling of the conjunctiva. Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.
Ingestion	May cause abdominal discomfort, nausea, vomiting, and diarrhea. If victim is conscious, give liquids and induce vomiting. Never give liquids to an unconscious person. Get medical attention.
Inhalation	Not a problem at room temperature, but fumes formed at elevated temperatures may be irritating to the eyes, skin, and respiratory tract. If any symptoms develop, remove to fresh air. If necessary, give artificial respiration. Get medical attention.
Other effects of overexposure	None currently known.

5. FIRE FIGHTING MEASURES

Extinguishing media	Use water spray, foam, carbon dioxide, or dry chemical media.
Flash Point (test method(s))	Non-combustible
Flammable Limits in Air (% by volume)	LOWER: N/A UPPER: N/A
Protective equipment	Use self-contained breathing apparatus and protective clothing.
Unusual Fire and Explosion Hazards	None

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	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.
Clean up methods	Absorb with inert, absorbent material (e.g. sand, earth). Transfer to suitable, labeled containers for disposal.

7. HANDLING AND STORAGE

Handling	Avoid spilling. Maintain good housekeeping standards to avoid accumulation of dust.
Storage	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labeled containers. Do not store near heat or flame, material can gel with long exposure to elevated temperatures (above 90°F).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures	Ensure adequate ventilation of the working area.
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Respiratory Protection	Wear a MSHA/NIOSH approved (or equivalent) half-mask air purifying respirator.
Hand protection	Impervious (Neoprene) Gloves
Eye protection	Approved safety goggles.
Protective equipment	Eye bath, safety shower, chemical apron.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Powder
Color	Slightly colored
Odor	No characteristic odor
Boiling Point	N/A
Melting Point	Starts at 250°C
Specific Gravity (H₂O = 1)	N/A
Freezing Point	N/A
Vapor Pressure at 20°C	N/A
Evaporation Rate	N/A
Solubility in Water by wt	immiscible
Percent Volatiles (by volume)	N/M*

* Tested according to EPA test method 24.

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to Avoid	Thermal decomposition begins to occur at 350°C.
Incompatibility (Materials to Avoid)	Strong oxidizing agents.
Hazardous Combustion or Decomposition Products	Burning can produce the following combustion products: N/M
Hazardous Polymerization	Cannot occur

11. TOXICOLOGICAL INFORMATION

Medical Conditions Aggravated by Overexposure	A knowledge of the available toxicology information and of the physical and chemical properties of the material suggests that overexposure is unlikely to aggravate existing medical conditions.
Carcinogenic	This product is not considered a carcinogen by NTP/IARC.

12. ECOLOGICAL INFORMATION

N/A

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

TSCA Inventory status Y
TSCA 12(b) export notification Not Listed

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 1, PHYSICAL HAZARD 0, PERSONAL PROTECTION: A.