

SAFETY DATA SHEET Photochromic Dye – Bright Red

Page 1 of 6

MSDS160 Revision 1
Revision Date 04/13/2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Photochromic Dye – Bright Red
Additional Names None
Description Bright Red 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

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 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray
 P501 - Dispose of contents/ container to an approved waste disposal plant

3. COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients	Classification	Conc.	CAS
Photochromic Dye	None	>100%	Not available

4. FIRST AID MEASURES

Description of first aid measures

Skin contact Wash skin with soap and water.
Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Inhalation Move to fresh air.
Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effect, both acute or delayed.

Main Symptoms No information available
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.
Notes to Physician Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical	Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Special protective equipment for fire-fighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Special protective actions for fire fighters	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.
Hazardous thermal decomposition products	Decomposition products may include the following materials: Carbon oxides Nitrogen oxides

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, protective equipment and emergency procedures	Avoid contact with the skin and the eyes. Use personal protective equipment. For personal protection see section 8. Ensure adequate ventilation.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Prevent further leakage or spillage if safe to do so.
Methods and material for containment and cleaning up	Use personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Individual protection measures	Avoid contact with skin, eyes and clothing. Do not breathe vapors/dust. In case of insufficient ventilation, wear suitable respiratory equipment. Wear personal protective equipment. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Provide appropriate exhaust ventilation at places where dust is formed. Do not eat, drink or smoke when using this product. Use personal protection recommended in Section 8.
Conditions for safe storage, including incompatibilities:	Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Incompatibilities: None known based on information supplied.
Specific end uses:	Keep away from sources of ignition – No smoking

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	Tightly fitting safety goggles. Avoid contact with eyes. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substances; this is irrespective of the recommendation involving the wearing of eye protection.

Skin protection – Hand protection	Skin and Body Protection. Wear protective gloves and protective clothing. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.
Environmental Exposure Controls	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product. Wear personal protective equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Powder
Colors	Off White
Odor	Slight to none.
Odor threshold	N/A
pH	N/A
Melting Point/Freezing Point	No information available
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	10g/m ³
Vapor Pressure	No testing available.
Solubility	Immiscible
% Volatiles (by volume)	0% (w/w)

10. STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or its ingredients
Chemical Stability	Stable under recommended storage and handling conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Extremes of temperature and direct sunlight.
Incompatible materials	None known based on information supplied.
Hazardous Decomposition Products	May emit toxic fumes under fire conditions

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product information	Product does not present an acute toxicity hazard based on known or supplied information
Inhalation	Avoid breathing vapors or mists.
Eye Contact	Avoid contact with eyes.
Skin Contact	Avoid contact with skin.
Ingestion	Not an expected route of exposure. Do NOT taste or swallow.

Information on Toxicological Effects

Symptoms	No information available.
-----------------	---------------------------

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No Information available
Germ cell mutagenicity	No information available.
carcinogenicity	No information available.
Reproductive Toxicity	No information available.
Specific target organ systemic toxicity (single exposure)	No information available.
Specific target organ systemic toxicity (repeated exposure)	No information available.

Aspiration Hazard No information available.

Numerical Measures of Toxicity - Product information

Unknown Acute Toxicity 100 percent of the mixture consists of ingredient(s) of unknown acute toxicity

12. ECOLOGICAL INFORMATION

ecotoxicity 100% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Persistence and Degradability No information available.

Bioaccumulation No information available.

Other Adverse Effects No information available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Should not be released into the environment. Dispose of in accordance with local regulations. This material, as supplied, is not a hazardous waste according to state and federal regulations (40 CFR 261).

Contaminated Packaging Do not re-use empty containers. Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT Not Regulated
IATA Not Regulated
IMDG Description Not Regulated

15. REGULATORY INFORMATION

International Inventories

TSCA **Low Volume Exemption may have been granted by the EPA for this product. Call 1-800-522-4393 for product specific information. Follow all use and control restrictions as outlined here, and in sections 6, 8, 13, & 15. NOTE: Commercial uses in other applications beyond those listed in the applicable LVE constitute a willful violation of EPA TSCA LVE regulations, and makes one subject to citations and to civil or criminal penalties.**

TSCA Not Determined
EINECS/ELINCS Not Determined
DSL Not Determined
NDSL Not Determined
PICCS Not Determined
ENCS Not Determined
IECSC Not Determined
AICS Not Determined
KECL Not Determined
NZIoC Not Determined

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances
NZIoC - New Zealand Inventory of Chemicals

REACH registration number LCR Hallcrest has taken all relative steps to ensure REACH-Compliance. **TITLE**
VIII No information available

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	NO.
Chronic health hazard	NO.
Fire hazard	NO.
Sudden Release of Pressure Hazard	NO.
Reactive Hazard	NO.

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

International Regulations

CANADA

WHMIS Note

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Non-controlled

HMIS **Health Hazard** 1 **Flammability** 1 **Physical Hazard** 0 **Personal Protection** f,n

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.