

SAFETY DATA SHEET Photochromic Dye – Purple 1

Page 1 of 5

MSDS093 Revision 3
Revision Date 08/26/2015

1. PRODUCT AND COMPANY IDENTIFICATION

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

Company LCR Hallcrest
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2. HAZARDS IDENTIFICATION.

GHS Classification Hazardous to aquatic environment (chronic): Cat 2,
COMBUSTIBLE DUSTS

GHS Label Elements



Pictograms

Signal Word

Hazard Statements

Precautionary Statement

Warning

May form combustible dust concentrations in air.

H411: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

P273: Avoid release to the environment.

P391: Collect spillage.

P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

3. COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients	Classification	Conc.	CAS
Spiro[2H-indole-2,3'-[3H]naph[2,1b][1,4]oxazine],6'-(2,3-dihydro-1H-indol-1-yl)-1,3-dihydro-1,3,3-trimethyl-	Hazardous to the aquatic environment (chronic): Cat 2	98%	114747-44-3-

4. FIRST AID MEASURES

Description of first aid measures

Skin contact Wash with mild soap and water.

Eye contact Immediately flush eyes with water for at least 15 minutes. Seek medical attention as needed.

Inhalation If a large quantity is inhaled remove to fresh air.

Ingestion Rinse mouth thoroughly with water. Induce vomiting if possible. Seek medical attention as needed.

Most important symptoms and effect, both acute or delayed.
No symptoms known currently.

Indication of immediate medical attention and special treatment needed, if necessary.
No special measures needed.

5. FIRE FIGHTING MEASURES

Extinguishing Media Use dry chemical powder., Do not use water jet.

Specific hazards arising from the chemical Fine dust clouds may form explosive mixtures with air.

Special protective equipment for fire-fighters Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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 Wear suitable personal protective equipment to avoid contact with skin and eyes.

Environmental Precautions 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).

Methods and material for containment and cleaning up 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. Avoid generating dust.

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. Avoid generating dust.

Conditions for safe storage, including incompatibilities: 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.

Specific end uses: Keep away from sources of ignition – No smoking

Suitable Packaging: Impermeable.

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.

Respiratory protection Wear anti-dust mask.

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

Appearance	Solid
Colors	Gray
Odor	Odorless
Odor threshold	N/A
pH	N/A
Melting Point/Freezing Point	237 - 238°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	3.595 x10 ⁻⁹ Pa (25°C).
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 (see Section 7).

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid 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.

Incompatible materials Reactive or incompatible with the following materials: oxidizing agents, strong alkalis, strong acids.

Hazardous Decomposition Products Decomposition products may include the following materials: carbon oxides, nitrogen oxides

11. TOXICOLOGICAL INFORMATION

Toxicological Information

Spiro[2H-indole-2,3'-[3H]naph[2,1b][1,4]oxazine],6'-(2,3-dihydro-1H-indol-1-yl)-1,3-dihydro-1,3,3-trimethyl-

Oral rat LD50 -- >2,000mg/kg
 Dermal LD50 → 2,000mg/kg

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	Negative Ames test using salmonella typhimurium (Data as photochromic powder).
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

Spiro[2H-indole-2,3'-[3H]naph[2,1b][1,4]oxazine],6'-(2,3-dihydro-1H-indol-1-yl)-1,3-dihydro-1,3,3-trimethyl-	Acute: EC50 Daphnia Magna >4mg/L Chronic: Toxic to aquatic life with long lasting effects.
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Other adverse effects	No data available

13. DISPOSAL CONSIDERATIONS

General information	<p>The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.</p> <p>Disposal should be in accordance with applicable regional, national and local laws and regulations.</p> <p>Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures</p>
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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.
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15. REGULATORY INFORMATION

SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on

ingredients No products were found.

SARA 311/312

Classification : Fire hazard

16. OTHER INFORMATION

Revision	Revision 3 8/26/2015: 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.
HMIS LABELLING	HEALTH 1, FLAMMABILITY 1, PHYSICAL HAZARD 0 PERSONAL PROTECTION: F