

SAFETY DATA SHEET Photochromic Slurry

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MSDS085 Revision 6 Revision Date 01/12/2018

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Photochromic Slurry

Additional Names None

Description Microencapsulated Photochromic Dye, Aqueous Dispersion

Intended Use Manufacture of photochromic inks and coatings.

Company LCR Hallcrest

1911 Pickwick Lane

Glenview IL 60026 USA

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Email sales@hallcrest.com
Emergency telephone Chemtel Domestic: 800-255-3924

number Intl: +01-813-248-0585

2. HAZARDS IDENTIFICATION.

GHS Classification Skin Sens. 1: H317 - May cause an allergic skin reaction.

Eye Irrit 2: H318 - Causes serious eye irritation. Carcinogen 1B: H350 – May cause cancer.

Reproductive toxicity 2 - Suspected of damaging fertility of the unborn child.

GHS Label Elements Pictograms



Signal Word Hazard Statements

Danger

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Carc. 1B: H350 - May cause cancer .

H361 - Suspected of damaging fertility or the unborn child

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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.

P264 Wash thoroughly after handling.

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

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses if present and easy to do. continue rinsing.

P308 + P313: IF exposed or concerned: Get medical advice/attention.

P321: Specific treatment (see ... on this label)

P333+P313 - If skin irritation or a rash occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: 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						
Formaldehyde	Flam. Liq. 4; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1; Muta. 2; Carc. 1B; Aquatic Acute 3; H227, H301+H311_H331, H314, H317, H318, H341, H350, H402	<0.5%	50-00-0						
4,4'-Isopropylidenediphenol	Repr. 2: H361f; STOT SE 3: H335; Eye Dam. 1: H318; Skin Sens. 1: H317;	1-5%	80-05-7						

4. FIRST AID MEASURES

Description of first aid measures

Irritating to skin. Wash off immediately with plenty of soap and water. Remove contaminated Skin contact

clothing. Seek medical attention if irritation or symptoms persist.

Irritating to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open.

Eye contact Seek medical attention if irritation or symptoms persist.

Irritating to respiratory system. Inhalation may cause coughing, tightness of the chest and irritation Inhalation

of the respiratory system. Move the exposed person to fresh air. Seek medical attention.

Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist.

Ingestion DO NOT INDUCE VOMITING.

Most important symptoms and effect, both acute or delayed.

Skin contact Avoid contact with skin. Irritating to skin.

Eve contact Irritating to eyes.

Inhalation Irritant, moderate respiratory.

Ingestion Ingestion may cause nausea and vomiting.

Indication of any immediate medical attention and special treatment needed.

Coughing, difficulty in breathing. If breathing is difficult give oxygen. Inhalation

Eye contact Seek medical attention if irritation or symptoms persist.

Skin contact May cause sensitization by skin contact. Wash off immediately with plenty of soap and water.

5. FIRE FIGHTING MEASURES

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

Specific hazards arising from

Burning produces irritating, toxic and obnoxious fumes. the chemical

Special protective actions for

Use self-contained breathing apparatus and protective clothing. fire-fighters

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, protective equipment and emergency Remove all sources of ignition. (Heat, flames and sparks) Ensure adequate ventilation of the working area. Avoid breathing dust or vapor. Avoid contact with skin, eyes and

procedures clothina.

Environmental Precautions

Do not allow product to enter drains. Prevent further spillage if safe. If the product

contaminates rivers, lakes or drains inform respective authorities.

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.

Clean Up:

Contain spillage, soak up with non-combustible absorbent material, (sand, earth,

vermiculite) and transfer to a container for disposal according to local / national regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

Formaldehyde **ACGIH TLV TWA: -**

Notations: SEN; A2

4,4'-Isopropylidenediphenol

OSHA PEL 8hr TWA Mg M3: -WEL 8-hr limit ppm: -WEL 15 min limit ppm: -WEL 8-hr limit mg/m3 total

inhalable dust:-

WEL 8-hr limit mg/m3 total

respirable dust:-

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

Skin Designator: -WEL 8-hr limit mg/m3: 10

WEL 15 min limit mg/m3: -WEL 15 min limit mg/m3 total

inhalable dust:-

WEL 15 min limit mg/m3 total

respirable dust:-

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

Ensure that eyewash stations and safety showers are close to the workstation location. Avoid contact with eyes. Safety glasses with side-shields. Goggles. Face-shield.

Skin protection - Hand

protection

Wear protective gloves / clothing. Solvent resistant apron and boots.

Use the indicated respiratory protection is the occupational exposure limit is exceeded and / or in case of product release (dust). Respiratory with a vapor filter.

Respiratory Protection

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Viscous Liquid Colors Various according to type

Odor Characteristic

Odor threshold N/A

pН 5.0 - 5.5

Melting Point/Freezing Point

100°C

Initial Boiling Point and

No testing available.

Boiling Range Flash Point

No testing available

Evaporation rate

No testing available.

Flammability Upper/Lower Flammability or

No testing available.

Explosive Limits

No testing available.

Vapor Pressure

No testing available.

Solubility Immiscible

% Volatiles (by volume) No testing available

Specific Gravity 0.8 - 1.1Viscosity 300-1500 cps

10. STABILITY AND REACTIVITY

Reactivity No data available

Chemical Stability Stable under normal conditions.

Possibility of hazardous reactions

> Conditions to avoid Protect from frost.

Incompatible materials Alkalis.

Hazardous Decomposition Formaldehyde may be generated and other harmful fumes.

Burning can product the following combustion products: N/M

Products

11. TOXICOLOGICAL INFORMATION

Toxilogical Information

Oral Mouse LD50: 42mg/kg Formaldehyde

Inhalation Rat LD50: 250ppm

Oral Rat LD50: 4240 mg/kg 4,4'-Isopropylidenediphenol

Dermal Rabbit LD50: 3 mL/kg

Skin corrosion/irritation No test data available

Serious eye

No test data available damage/irritation

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

Acute Toxicity May cause sensitization of the skin.

Likely routes to exposure

12. ECOLOGICAL INFORMATION

Toxicity Formaldehyde

Daphnia 1 EC50 - 54mg/l

4,4'-Isopropylidenediphenol

Green algae EC50/96h: 3.1 Fathead minnows LC50/96h: 4.6 Daphnia LC50/48h: 10.2

Skin Rabbit LD50: 270 mg/kg

Oral Mouse LD50: 2500 mg/kg

Persistence and degradability

Bioaccumulative potential Mobility in soil

No data available No data available No data available

Other adverse effects No data available on this product.

13. DISPOSAL CONSIDERATIONS

General information

Dispose of in compliance with all local and national regulations. Do not empty into drains;

dispose of this material and its container in a safe way.

14. TRANSPORT INFORMATION

UN Number UN Proper Shipping Name Transport Hazard class(es) Packing Group (if applicable)

This product is not classified as dangerous for carriage. This product is not classified as dangerous for carriage. This product is not classified as dangerous for carriage. 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												
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Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304			
Formaldehyde	Υ	Υ	Y0.1	Υ	N	Y	Υ	Y 500	Y 100			
4,4'- Isopropylidenediphenol	Υ	Υ	Y1.0	N	N	N	N	N	N			

16. OTHER INFORMATION

Revision

Revision 3, 7/6/2015 - Major revision to include the requirements of the HCS/HazCom 2012

Final Rule.

Revision 4 8/6/2015 – Added an additional label format, 2"x5" for small bottles.

Revision 5 05/03/2016- Removed 2-Propenoic acid, from section 12; the component is not in the

material.

Revision 6 01/12/2018 – Corrected the CAS number for formaldehyde from 50-0-0 to 50-00-0.

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: A.