

SAFETY DATA SHEET Thermochromic Dispersion BPA Free

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SDS111 Revision 5
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1. PRODUCT AND COMPANY IDENTIFICATION

Product name Thermochromic Dispersion BPA Free
Additional Names None
Description Aqueous temperature sensitive color change pigment dispersion.
Intended Use Manufacture of color change inks and coatings.

Company LCR Hallcrest
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IL 60026 USA

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2. HAZARDS IDENTIFICATION.

GHS Classification - CLP: Skin Sens. 1, Carc.

GHS Label Elements
Pictograms



Signal Word Danger
Hazard Statements May cause cancer by inhalation
May cause an allergic skin reaction
Repeated exposure may cause skin dryness or cracking

Precautionary Statement Avoid breathing dust / fume / gas / mist / vapors / spray.
Wear protective gloves / protective clothing / eye protection / face protection
If exposed or concerned: Get medical advice/attention
Use personal protective equipment as required
If skin irritation or rash occurs: Get medical advice/attention

3. COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients	Classification
Formaldehyde	CAS Number: 50-00-0 EC Number: 200-001-8 Concentration: 0.2- 0.5% Categories: Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Skin Sens. 1, Muta. 2, Carc. 1B Symbols: GHS08;GHS06;GHS05 H Statements: H350;H341;H331;H311;H301;H314;H317
Color Developer	CAS Number: Proprietary EC Number: Proprietary Concentration: 4-8 % Categories: Skin Irrit. 2; Eye Irrit. 2; STOT SE 3 Symbols: WARNING H Statements: H319, H315, H335

4. FIRST AID MEASURES

Description of first aid measures

Skin contact	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. If exposed or concerned: Get medical advice/attention.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention.
Inhalation	If exposed or concerned: Get medical advice/attention.
Ingestion	If exposed or concerned: Get medical advice/attention.

Most important symptoms and effect, both acute or delayed.

Skin contact	May cause an allergic skin reaction
Eye contact	Causes redness and irritation
Inhalation	May cause cancer by inhalation
Ingestion	May cause irritation

Indication of any immediate medical attention and special treatment needed.

If exposed or if you feel unwell: Call a Poison Center or doctor/physician
Treat symptomatically

5. FIRE FIGHTING MEASURES

Extinguishing Media	Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions.
Specific hazards arising from the chemical	May give off noxious and toxic fumes in a fire.
Special protective actions for fire-fighters	Wear suitable respiratory protection

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, protective equipment and emergency procedures	Ensure adequate ventilation
Environmental Precautions	Avoid release to the environment.
Methods and material for containment and cleaning up	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

7. HANDLING AND STORAGE

Precautions for safe handling Contaminated work clothing should not be allowed out of the workplace.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Use personal protective equipment as required.
 Wash contaminated clothing before reuse.
 Dispose of contents/container to hazardous waste.

Conditions for safe storage, including incompatibilities: Store at ambient temperature.
 Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Formaldehyde **%WEL: 8** **Min limit 2 ppm WEL: 15**
hr limit: 2 ppm WEL: 8 hr **Min limit: 2.5 mg/m3**
limit: 2.5 mmg/m3 WEL: 15

Individual Protection Measures Use personal protective equipment as required
 Wear protective gloves/protective clothing/eye protection/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Liquid
Colors Various according to type
Odor Formaldehyde odor
pH 5.0 – 5.5
Melting Point No information available
Boiling Point No information available
Flash Point No information available
Evaporation rate No information available
Solubility Miscible with water
Specific Gravity 0.8 – 1.1 g/cm3
Other Information Volatile organic compound content 0.4%

10. STABILITY AND REACTIVITY

Reactivity No hazardous reactions known if used for its intended purpose
Chemical Stability Stable
Possibility of hazardous reactions No hazardous reactions known if used for its intended purpose
Conditions to avoid No information available
Incompatible materials Contact with strong acids may generate formaldehyde
Hazardous Decomposition Products Burning products obnoxious and irritating fumes
 Formaldehyde may be generated and other harmful fumes

11. TOXICOLOGICAL INFORMATION

Formaldehyde Inhalation Rat LC50: 250ppm
 Oral Rat LD50: 500mg/kg Skin Rabbit LD50: 270 mg/kg
 Oral Mouse LD50: 500mg/kg
 Inhalation Mouse LC50: 505 mg/kg

Color Developer Oral Rat LD50: 3400 mg/kg

Acute Toxicity Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects

Skin corrosion/irritation May cause irritation to skin

Serious eye damage/irritation No data available

Respiratory or skin sensitization No data available

Germ cell mutagenicity No data is available on this product
Carcinogenicity Contains formaldehyde which is classified as Carcinogen 1B
Reproductive Effects No information available
STOT-single exposure No data is available on this product
STOT-repeat exposure No data is available on this product
Aspiration hazard No data is available on this product
Repeated or prolonged exposure No data is available on this product

12. ECOLOGICAL INFORMATION

Toxicity	No information available
Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	Miscible in water
Results of PBT and vPvB assesment	No information available
Other adverse effects	No data available on this product.

13. DISPOSAL CONSIDERATIONS

General information Dispose of contents/container to hazardous waste

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.
Transport in bulk according to ANNEX II of Marpol and IBC	This product is not classified as dangerous for carriage.

Further information This product is not classified as dangerous for carriage.

15. REGULATORY INFORMATION

Ingredient	TSCA	SARA313	CALPROP65	CERCLA 40	CAA112
Formaldehyde	Compliant	Yes	Yes	Yes	Yes

16. OTHER INFORMATION

Further Information Text not given with phrase codes where they are used elsewhere in this safety data sheet: H301: Toxic if swallowed. H311: Toxic in contact with skin. H314: Causes severe skin burns and eye damage. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H331: Toxic if inhaled. H335: May cause respiratory irritation. H341: Suspected of causing genetic defects. H350: May cause cancer.

This information supplied in this Safety Data Sheet is designed only as guidance for the safe use and storage 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 only relates 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.