

SAFETY DATA SHEET Thermochromic Dispersion

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SDS005 Revision 7 Revision Date 08/12/2020

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Thermochromic Dispersion

Additional Names None

Description Aqueous temperature sensitive color change pigment dispersion.

Intended Use Manufacture of color change inks and coatings.

Company LCR Hallcrest

1911 Pickwick Lane

Glenview IL 60026 USA

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2. HAZARDS IDENTIFICATION.

GHS Classification

- CLP: Skin Sens. 1, Eye Dam. 1, Carc. 1B, Repr. Cat. 1B

GHS Label Elements Pictograms



Signal Word Hazard Statements

Danger

May cause cancer

May damage fertility or the unborn child if swallowed

Causes serious eye damage. May cause an allergic skin reaction.

Precautionary Statement

Avoid breathing dust / fume / gas / mist / vapors / spray.

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Wear protective gloves / protective clothing / eye protection / face protection. Do not handle until all safety precautions have been read and understood.

If exposed or concerned: Get medical advice/attention.

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

4,4'-Isopropylidenediphenol

(Bisphenol A)

CAS Number: 80-05-7 EC Number: 201-245-8 Concentration: 2 - 6%

Categories: Eye Dam. 1, Skin Sens. 1, Repr. Cat. 1B, STOT SE 3

Symbols: GHS08; GHS05; GHS07 H Statements: H360F; H335; H318; H317

4. FIRST AID MEASURES

Description of first aid measures

IF ON SKIN: Wash with plenty of soap and water.

Skin contact If skin irritation or rash occurs: Get medical advice/attention.

If exposed or concerned: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

Eye contact 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

Eye contact
Inhalation
Ingestion

See Section 2 and/or in section 11

Indication of any immediate medical attention and special treatment needed.

No information available

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

Wear protective clothing as per section 8

procedures

Ensure adequate ventilation

Environmental Precautions Avoid release to the environment.

Methods and material for Absorb spillage in suitable inert material. containment and cleaning up Collect spillage.

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7. HANDLING AND STORAGE

Forms hazardous decomposition products.

Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

Precautions for safe handling

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 LTEL (8 hr TWA ppm) 2

STEL (ppm) 2

LTEL (8 hr TWA mg/m³) 2.5

STEL (mg/m³) 2.5

4,4'-Isopropylidenediphenol

(Bisphenol-A)

LTEL (8hr TWA mg/m³) 2

Use personal protective equipment as required.

Wear chemical protective gloves/protective clothing/eye protection/face protection.

Inhalation Rat LC50: 17 mg/l 6 hr

9. PHYSICAL AND CHEMICAL PROPERTIES

Individual protection measures

Appearance Liquid Various
Odor Characteristic pH 5.0 – 5.5

Melting Point Not known
Freezing Point/Range 0°C
Boiling Point Not known
Evaporation Rate Not known

Flammability No information available

Lower explosive Limit Upper explosive limit No information available % (in air) No information available % (in air)

Vapor Density Vapor Pressure Specific Gravity Not known 0.8 – 1.1 g/cm3

Partition coefficient: nOctanol/Water
Auto-ignition Point
Viscosity
Not known
Not applicable
Not known

Explosive Properties Non-explosive Water Solubility Miscible

Other Information Volatile organic compound content 0.4%

10. STABILITY AND REACTIVITY

Reactivity No information available

Chemical Stability Stable

Possibility of hazardous Considered stable under normal conditions

reactions

Conditions to avoid No special precautions are required for this product

Incompatible materials Incompatible with alkalis (strong bases)

Hazardous Decomposition Formaldehyde may be generated and other harmful fumes.

Products

11. TOXICOLOGICAL INFORMATION

Formaldehyde Inhalation Rat LC50: 250 ppm

Oral Rat LD50: 500 mg/kg
Oral Mouse LD50: 500 mg/kg
Inhalation Mouse LC50: 505 mg/kg
Dermal Rabbit LD50: 270 mg/kg

4,4'-Isopropylidenediphenol Oral Rat LD50: 3300 mg/kg

Dermal Rabbit LD50: 6400 mg/kg

Acute Toxicity-Inhalation Not classified

Acute Toxicity-Ingestion Harmful if swallowed

Acute Toxicity-Skin contact Not classified Skin corrosion/irritation Not classified

> Serious eye Causes serious eye damage

damage/irritation

May cause allergic skin reaction

Skin sensitization data Respiratory sensitization

Germ cell mutagenicity

Not classified

Not classified

Carcinogenicity May cause cancer

Reproductive Toxicity May damage fertility

> Lactation Not classified

Not classified STOT-single exposure STOT-repeated exposure Not classified

Aspiration Hazard Not classified

12. ECOLOGICAL INFORMATION

Toxicity Persistence and No information available

No Information available

degradability Bioaccumulative potential

No information available

Mobility in soil

Miscible with water

Results of PBT and vPvB assessment

No information available

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

General information

Dispose of content/container to hazardous waste

14. TRANSPORT INFORMATION

UN Number Not applicable **UN Proper Shipping Name** Not applicable Transport Hazard class(es) Not applicable Packing Group (if applicable) Not applicable **Environmental Hazards** Not classified

Special Precautions for the User Not classified Transport in bulk according to Annex II Not classified

of Marpol and the IBC

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

15. REGULATORY INFORMATION					
Ingredient	TSCA	SARA313	CALPROP65	CERCLA	CAA112
Formaldehyde	Compliant	Yes	Yes	Yes	Yes
4,4'-Isopropylidenediphenol (Bisphenol-A)	Compliant	Not Listed	Yes	Not Listed	Not Listed

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. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H331: Toxic if inhaled. H335: May cause respiratory irritation. H341: Suspected of causing genetic defects. H350: May cause cancer. H360F: May damage fertility.

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.