

SAFETY DATA SHEET Thermochromic Powder

Page 1 of 4

SDS007 Revision 5
Revision Date 08/12/2020

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	Thermochromic Powder		
Additional Names	None		
Description	Temperature sensitive color change pigment.		
Intended Use	Manufacture of temperature-indicating products and temperature-sensitive decorative		
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 - CLP: Skin Sens. 1, Eye Dam. 1, Repr. Cat.

**GHS Label Elements
Pictograms**



Signal Word Danger

Hazard Statements 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.
If exposed or concerned: Get medical advice/attention.
Use personal protective equipment as required
Obtain special instructions before use

3. COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients	Classification
4,4'-Isopropylidenediphenol (Bisphenol A)	CAS Number: 80-05-7 EC Number: 201-245-8 Concentration: 5 – 15 % 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

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	May cause severe irritation
Inhalation	May cause irritation
Ingestion	In cases of severe exposure, systemic effects may develop

Indication of any immediate medical attention and special treatment needed.

If substance has got into eyes, immediately wash out with plenty of water
If exposed or if you feel unwell: Call a POISON CENTER or doctor/physician

5. FIRE FIGHTING MEASURES

Extinguishing Media	Use as appropriate: Carbon dioxide (CO2), Dry chemical, Foam.
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	Damp down to avoid dust generation. Wear protective clothing as per section 8 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	Do not allow dust to accumulate on surfaces and equipment 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. Store in a dry place. Store in a closed container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Bisphenol A; 4,4'-Isopropylidenediphenol **LTTEL (8 hr TWA mg/m³)²**

Exposure Controls

Contaminated work clothing should not be allowed out of the workplace

Individual protection measures

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Powder
Odor	Characteristic odor
pH	Not applicable
Melting Point	Not applicable
Freezing Point/Range	Not applicable
Boiling Point	Not applicable
Evaporation Rate	Not applicable
Flammability	No information available
Upper explosive limit	Not known % (in air)
Lower explosive limit	Not known % (in air)
Vapor Pressure	Not known
Vapor Density	Not known
Partition coefficient n-Octanol/water	Not known
Auto-ignition point	Not known
Viscosity	Not applicable
Explosive Properties	Not available
Water solubility	Insoluble in water
Volatile Organic Compound Content	<0.1%

10. STABILITY AND REACTIVITY

Reactivity	No information available
Chemical Stability	Stable
Possibility of hazardous reactions	Considered stable under normal conditions
Conditions to avoid	Avoid contact with acids and alkalis
Incompatible materials	Contact with strong acids may generate formaldehyde
Hazardous Decomposition Products	Formaldehyde may be generated and other harmful fumes.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	No data is available on this product
Skin corrosion/irritation	No information available
Serious eye damage/irritation	May cause serious eye damage
Respiratory or skin sensitization	May cause allergic skin reaction
Germ cell mutagenicity	No data is available on this product
Carcinogenic Effects: IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
Reproductive Effects	May cause adverse reproductive effects
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
Prolonged or repeated exposure	Avoid. May cause sensitization by skin

12. ECOLOGICAL INFORMATION

Toxicity	Bisphenol A; 4,4'-Isopropylidenediphenol Green algae EC50/96h: 3.1 Daphnia LC50/48h:102 Fathead minnows LC50/96h: 4.6
Persistence and degradability	No information available
Bioaccumulative potential	No information available

Mobility in soil Insoluble in water
Results of PBT and vPvB assessment No information available
Other adverse effects Caution: Substance not yet fully tested

13. DISPOSAL CONSIDERATIONS

General information Dispose of contents/container to hazardous waste in compliance with local and national regulations.

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 or Marpol and the IBC Not classified
Further information This product is not classified as dangerous for carriage.

15. REGULATORY INFORMATION

Ingredient	TSCA	CERCLA	SARA313	CALPROP65	CAA112
4,4'-Isopropylidenediphenol	Compliant	Not Listed	Not Listed	Yes	Not listed

16. OTHER INFORMATION

Further information Text not given with phrase codes where they are used elsewhere in this safety data sheet: H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H335: May cause respiratory irritation. 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.