

SAFETY DATA SHEET Thermochromic Powder BPA Free

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SDS081 Revision 4
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1. PRODUCT AND COMPANY IDENTIFICATION

Product name	Thermochromic Powder BPA Free		
Additional Names	None		
Description	Temperature sensitive color change pigment.		
Intended Use	Manufacture of color change inks and coatings. Manufacture of temperature indicating devices. Manufacture of temperature sensitive color changing plastics.		
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 Irrit. 2, Eye Irrit.

**GHS Label Elements
Pictograms**



Signal Word Warning
Hazard Statements Causes skin irritation
Causes serious eye irritation

Precautionary Statement
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 ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

3. COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients	Classification
Color Developer	CAS Number: Proprietary EC Number: Proprietary Concentration: 10.0% 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.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Inhalation	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice.
Ingestion	Seek medical advice if necessary. Do not induce vomiting.

Most important symptoms and effect, both acute or delayed.

Skin contact	Irritating to skin
Eye contact	Causes irritation
Inhalation	Irritating to respiratory system May cause shortness of breath
Ingestion	Causes nausea/vomiting

Indication of any immediate medical attention and special treatment needed.

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 Avoid raising dust.
Ensure adequate ventilation of the working area. Eliminate all sources of ignition. Wear suitable protective equipment.

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 surface and equipment.
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 an authorized waste collection point.

Conditions for safe storage, including incompatibilities: Store at ambient temperature.
Store in a dry place. Store in a closed container.

Specific end use(s): On processing FF powders for master batch, heating may result in generation of formaldehyde. Ensure adequate ventilation of all fumes.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

DNEL (inhalational): No data for this product

Exposure Controls

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Powder
Colors	Various according to type
Odor	Characteristic odor
pH	Not applicable
Melting Point	Not applicable
Boiling Point	Not applicable
Flash Point	Not applicable
Evaporation rate	Not applicable
Flammability	No information available
Vapor Pressure	Not known
Vapor density	Not known
Specific gravity	Not known
Fat solubility	Not known
Partition Coefficient: n-Octanol/water	Not known
Auto-ignition point	Not known
Viscosity	Not applicable
Explosive Properties	Not available
Oxidizing Properties	No information available
Water solubility	Insoluble in water

10. STABILITY AND REACTIVITY

Reactivity	No special requirements
Chemical Stability	Considered stable under normal conditions
Possibility of hazardous reactions	Heating during molding will generate high levels of formaldehyde vapors which should be vented
Conditions to avoid	Avoid contact with acid
Incompatible materials	Contact with strong acids may generate formaldehyde Incompatible with alkalis (strong bases)
Hazardous Decomposition Products	Formaldehyde may be generated and other harmful fumes.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity	No data is available on this product
Skin corrosion/irritation	Irritating to skin
Respiratory or skin sensitization	No data available
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	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	Insoluble in water
Results of PBT and vPvB assessment	No information available
Other adverse effects	To the best of our knowledge, the properties of this material have not been fully evaluated

13. DISPOSAL CONSIDERATIONS

General information Avoid release to the environment

Waste Treatment Methods Absorb spillage in inert material and shovel up
 Avoid raising dust
 Disposal should be in accordance with local, state or national legislation
 This material and its container must be disposed of as 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 of Marpol and the IBC Not classified
Further information This product is not classified as dangerous for carriage.

15. REGULATORY INFORMATION

Ingredient	TSCA	SARA313	CALPROP65	CERCLA 40	CAA112
Color Developer	Compliant	Not listed	Not listed	Not listed	Not listed

Chemical Safety Assessment A chemical safety assessment (CSA) for this product has not yet been completed

16. OTHER INFORMATION

Further information Text not given with phrase codes where they are used elsewhere in this safety data sheet: - H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation.

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.