

SAFETY DATA SHEET Thermochromic Powder BPA Free

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SDS081 Revision 4
Revision Date 08/12/2020

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.