

SAFETY DATA SHEET THERMOCHROMIC MASTERBATCH

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MSDS156 Revision 1
Revision Date 12/11/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	Thermochromic Master Batch – Bisphenol A Free		
Additional Names	None		
Description	Thermochromic master batch concentrate for use in PE, PP, PVC, PS, SAN, PC, EVA, and other.		
Intended Use	Manufacture of temperature sensitive color change plastics and resins. Suitable for injection molding, extrusion, compressing molding, etc.		
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 Skin Irrit. 2: H315; Eye Irrit. 2: H319;

GHS Label Elements
Pictograms



Signal Word
Hazard Statements

Warning
Skin Irrit. 2: H315 - Causes skin irritation.
Eye Irrit. 2: H319 - Causes serious eye irritation.

Precautionary Statement

P264 - Wash thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of water/ .
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 - Specific treatment (see on this label).
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.

Classification
1994/45/EC

Skin Irrit. 2: H315; Eye Irrit. 2: H319;

3. COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients	Classification	Conc.	CAS
Colour developer	Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335;	2-4%	Prop

Polypropylene or Polyethylene	None	78%	9003-07-3 or 9002-88-4
Proprietary Non-Hazardous	None	18-20%	Prop

4. FIRST AID MEASURES

Description of first aid measures

- Skin contact** Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist
- Eye contact** Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
- Inhalation** Move the exposed person to fresh air. Seek medical attention.
- Ingestion** Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITING.

Most important symptoms and effect, both acute or delayed.

- Skin contact** Irritating to the skin.
- Eye contact** Irritating to the eyes.
- Inhalation** Irritating to respiratory system. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
- Ingestion** Ingestion may cause nausea and vomiting.

Indication of any immediate medical attention and special treatment needed.

- Skin contact** Itching. Wash off immediately with plenty of soap and water.
- Eye contact** May cause irritation to the eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
- Inhalation** Inhalation of dust may cause shortness of breath.
- Ingestion** Ingestion may cause nausea and vomiting. If you feel unwell, seek medical advice (show the label where possible).

5. FIRE FIGHTING MEASURES

Extinguishing Media Carbon oxides.

Specific hazards arising from the chemical Burning produces irritating, toxic and obnoxious fumes.

Special protective actions for fire-fighters Wear suitable respiratory equipment when necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, protective equipment and emergency procedures Avoid raising dust. Ensure adequate ventilation of the working area. Wear suitable protective equipment.

Environmental Precautions Do not allow product to enter drains. Prevent further spillage if safe.

Methods and material for containment and cleaning up Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

7. HANDLING AND STORAGE

Individual protection measures Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing

Conditions for safe storage, including incompatibilities: Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.

Specific end uses: Keep away from sources of ignition – No smoking

Suitable Packaging: Plastic Containers

Further Information: 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

Individual protection measures Wear chemical protective clothing.

Eye/face protection Approved safety goggles

Skin protection – Hand protection Chemical resistant gloves (PVC).

Respiratory protection Wear suitable respiratory equipment.

Environmental Exposure Controls Appropriate local exhaust ventilation is required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Pellets
Colors Various colors according to type.
Odor Slight
Odor threshold N/A
pH N/A
Melting Point/Freezing Point No testing available.
Initial Boiling Point and Boiling Range N/A
Flash Point No testing available.
Evaporation rate No testing available.
Flammability No testing available.
Upper/Lower Flammability or Explosive Limits No testing available.
Vapor Pressure No testing available.
Solubility Insoluble in water.

10. STABILITY AND REACTIVITY

Reactivity Avoid sparks, flames, heat and sources of ignition.
Chemical Stability Stable under normal conditions.
Possibility of hazardous reactions Heating during molding will generate high levels of formaldehyde vapours which should be vented.
Conditions to avoid No Significant Hazard.
Incompatible materials Avoid contact with: Strong bases.
Hazardous Decomposition Products Formaldehyde may be generated and other harmful fumes.

11. TOXICOLOGICAL INFORMATION

Toxicological Information
Colour developer Oral Rat LD50: 3400 mg/kg
Skin corrosion/irritation May cause sensitization by skin contact

Serious eye damage/irritation No test data available

Respiratory or skin sensitization No test data available

Germ cell mutagenicity No test data available
Carcinogenicity No test data available
Reproductive toxicity No test data available
STOT-single exposure No test data available
STOT-repeat exposure No test data available
Aspiration hazard No test data available

12. ECOLOGICAL INFORMATION

Persistence and degradability No data available
Bioaccumulative potential No data available
Mobility in soil No data available
Other adverse effects No data available

13. DISPOSAL CONSIDERATIONS

General information Dispose of in compliance with all local and national regulations.

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.
DOT	This product is not classified as dangerous for carriage.
IMDG	This product is not classified as dangerous for carriage.
IATA	This product is not classified as dangerous for carriage.
Further Information	For this product a chemical safety assessment was not carried out.

15. REGULATORY INFORMATION

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

Further Information: For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

Revision	Revision 1 12/11/2015: Initial Revision
Text Hazard Statements from Section 3	Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. P264 - Wash thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 - IF ON SKIN: Wash with plenty of water/ . P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 - Specific treatment (see on this label). P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.

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

HMIS LABELLING HEALTH 0, FLAMMABILITY 1, PHYSICAL HAZARD 1, PERSONAL PROTECTION: B..