

SAFETY DATA SHEET

according to Regulation (EU) 2015/830

Page 1/8

Chromazone Masterbatch

Revision 7

Revision date 2017-08-15

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Chromazone Masterbatch

1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use [SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [SU12] Manufacture of plastics products, including compounding and conversion;

1.3. Details of the supplier of the safety data sheet

Company LCR Hallcrest Ltd
Address Riverside Buildings
 Dock Road
 Connah's Quay
 Flintshire CH5 4DS
 United Kingdom
Web www.lcrhallcrest.com
Telephone +44 (0) 1244 817107
Fax +44 (0)1244 818502
Email sales@lcrhallcrest.com

Intended use

Manufacture of temperature sensitive colour change plastics.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008 Skin Sens. 1: H317; Eye Irrit. 2: H319;

2.2. Label elements

Hazard pictograms



Signal Word

Warning

Hazard Statement

Skin Sens. 1: H317 - May cause an allergic skin reaction.
 Eye Irrit. 2: H319 - Causes serious eye irritation.

Precautionary Statement: Prevention

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 - Wash thoroughly after handling.
 P272 - Contaminated work clothing should not be allowed out of the workplace.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statement: Response

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).

Chromazone Masterbatch

Revision 7

Revision date 2017-08-15

2.2. Label elements

Precautionary Statement: Disposal	P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
	P337+P313 - If eye irritation persists: Get medical advice/attention.
	P501 - Dispose of contents/container to approved waste disposal plant or contractor.

2.3. Other hazards

Other hazards	On processing FF powders for masterbatch heating may result in generation of formaldehyde. Ensure adequate ventilation of all fumes.
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
4,4'-Isopropylidenediphenol	604-030-00-0	80-05-7	201-245-8		1 - 10%	Repr. 2: H361f; STOT SE 3: H335; Eye Dam. 1: H318; Skin Sens. 1: H317;

SECTION 4: First aid measures

4.1. Description of first aid measures

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

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Plastic masterbatch is granular and as such will not represent a hazard by inhalation. When heated during moulding formaldehyde may be generated which can cause irritation, coughing and shortness of breath.
Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin. May cause sensitisation by skin contact.
Ingestion	May cause irritation to mucous membranes.

4.3. Indication of any immediate medical attention and special treatment needed

Inhalation	Remove the affected person from the source of contamination immediately. Seek medical attention if irritation or symptoms persist.
Eye contact	Seek medical attention if irritation or symptoms persist.
Skin contact	Seek medical attention if irritation or symptoms persist.
Ingestion	If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

	Carbon oxides.
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5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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Further information

	Formaldehyde may be generated and other harmful fumes.
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Chromazone Masterbatch

Revision 7

Revision date 2017-08-15

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid raising dust. Ensure adequate ventilation of the working area. Wear suitable protective equipment.

6.2. Environmental precautions

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

6.3. 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.

6.4. Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Ensure adequate ventilation of the working area. Avoid contact with eyes.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.

7.3. Specific end use(s)

Heating during moulding will generate high levels of formaldehyde vapours which should be vented.

Suitable packaging

Plastic containers. Stainless steel containers.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****8.1.1. Exposure Limit Values**

4,4'-Isopropylidenediphenol	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 10
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
	WEL 8-hr limit mg/m3 total - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 total - respirable dust:
	Formaldehyde...%	WEL 8-hr limit ppm: 2
	WEL 15 min limit ppm: 2	WEL 15 min limit mg/m3: 2.5
	WEL 8-hr limit mg/m3 total - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 total - respirable dust:

8.2. Exposure controls**8.2.1. Appropriate engineering controls**

Ensure adequate ventilation of the working area.

Chromazone Masterbatch

Revision 7

Revision date 2017-08-15

8.2. Exposure controls

8.2.2. Individual protection measures	Wear chemical protective clothing.
Eye / face protection	Approved safety goggles.
Skin protection - Handprotection	Chemical resistant gloves (PVC).
Respiratory protection	On processing FF powders for masterbatch heating may result in generation of formaldehyde. Ensure adequate ventilation of all fumes. When moulding use respiratory protection with filters to eliminate formaldehyde, or an air fed system.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Pellets
Colour	Various colours according to type.
Odour	Mild
Odour threshold	No data available
pH	Not applicable.
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	Not applicable.
Explosive properties	Not applicable.
Oxidising properties	No data available
Solubility	Insoluble in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	Not applicable.
Benzene Content	Not applicable.
VOC (Volatile organic compounds)	Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

	Avoid contact with: Solvents - not hazardous but may soften and damage the masterbatch.
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10.2. Chemical stability

	Stable under normal conditions. Heating during moulding will generate high levels of formaldehyde vapours which should be vented.
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10.3. Possibility of hazardous reactions

	Heating during moulding will generate high levels of formaldehyde vapours which should be vented.
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Chromazone Masterbatch

Revision 7

Revision date 2017-08-15

10.4. Conditions to avoid

No Significant Hazard.

10.5. Incompatible materials

No Significant Hazard.

10.6. Hazardous decomposition products

Burning produces irritating, toxic and obnoxious fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	May cause sensitisation by skin contact.
Skin corrosion/irritation	May cause sensitisation by skin contact.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	May cause sensitisation by skin contact.
Germ cell mutagenicity	No data is available on this product.
Carcinogenicity	No data is available on this product.
Reproductive toxicity	Contains Bisphenol A which is toxic to reproduction and an endocrine disruptor.
STOT-single exposure	No data is available on this product.
STOT-repeated exposure	No data is available on this product.
Aspiration hazard	Supplied as pellets which are not an aspiration hazard. Only hazardous under heating.
Repeated or prolonged exposure	No data is available on this product.

11.1.2. Mixtures

No data is available on this product.

11.1.3. Hazard Information

Refer to section 2.2.

11.1.4. Toxicological Information

4,4'-Isopropylidenediphenol	Oral Rat LD50: 4240 mg/kg Dermal Rabbit LD50: 3 mL/kg	Oral Mouse LD50: 2500 mg/kg
Formaldehyde...%	Inhalation Rat LC50/2H h: 250 ppm Oral Mouse LD50: 500 mg/kg Dermal Rabbit LD50: 270 mg/kg	Oral Rat LD50: 500 mg/kg Inhalation Mouse LC50/2H h: 505 mg/m3

11.1.5. Hazard Class

Refer to section 2.2.

SECTION 12: Ecological information

12.1. Toxicity

4,4'-Isopropylidenediphenol	Green algae EC50/96h: 3.1 Fathead minnows LC50/96h: 4.6	Daphnia LC50/48h: 10.2
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12.2. Persistence and degradability

No data is available on this product.

12.3. Bioaccumulative potential

No data is available on this product.

Partition coefficient

Chromazone Masterbatch

Revision 7

Revision date 2017-08-15

Partition coefficient

Chromazone Masterbatch No data available

12.4. Mobility in soil

No data is available on this product.

12.5. Results of PBT and vPvB assessment

No data is available on this product.

12.6. Other adverse effects

No data is available on this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sweep up.

General information

Dispose of in compliance with all local and national regulations.

Disposal of packaging

Containers must be recycled in compliance with national legislation and environmental regulations.

SECTION 14: Transport information

14.1. UN number

The product is not classified as dangerous for carriage.

14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

Further information

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations

This safety data sheet complies with Regulation (EC) 2015/830.

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, Authorisation 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.

Chromazone Masterbatch

Revision 7

Revision date 2017-08-15

15.2. Chemical safety assessment

	For this product a chemical safety assessment was not carried out.
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SECTION 16: Other information

Other information

Revision	
	<p>This document differs from the previous version in the following areas:.</p> <ul style="list-style-type: none"> 1 - Product Use. 2 - Precautionary Statement: Prevention. 2 - Precautionary Statement: Response. 2 - Precautionary Statement: Disposal. 8 - Respiratory protection. 9 - 9.1. Information on basic physical and chemical properties (Odour). 9 - 9.1. Information on basic physical and chemical properties (Initial boiling point). 9 - 9.1. Information on basic physical and chemical properties (Melting point). 9 - 9.1. Information on basic physical and chemical properties (Flammability (solid, gas)). 9 - 9.1. Information on basic physical and chemical properties (Autoignition temperature). 9 - 9.1. Information on basic physical and chemical properties (Explosive properties). 9 - 9.1. Information on basic physical and chemical properties (Oxidising properties). 9 - 9.1. Information on basic physical and chemical properties (Vapour pressure). 9 - 9.1. Information on basic physical and chemical properties (Relative density). 9 - 9.1. Information on basic physical and chemical properties (Viscosity). 9 - 9.1. Information on basic physical and chemical properties (Vapour density). 9 - 9.1. Information on basic physical and chemical properties (Evaporation rate). 9 - 9.1. Information on basic physical and chemical properties (Freezing Point). 9 - 9.1. Information on basic physical and chemical properties (Fat Solubility). 9 - 9.1. Information on basic physical and chemical properties (Odour threshold). 9 - 9.2. Other information (Conductivity). 9 - 9.2. Other information (Partition coefficient). 9 - 9.2. Other information (Gas group). 9 - 9.2. Other information (Surface tension). 9 - 9.2. Other information (Benzene Content). 9 - 9.2. Other information (Product Subcategory). 11 - Skin corrosion/irritation. 11 - Respiratory or skin sensitisation. 11 - Repeated or prolonged exposure. 11 - Germ cell mutagenicity. 11 - Carcinogenicity. 11 - Reproductive toxicity. 11 - Serious eye damage/irritation. 11 - STOT-single exposure. 11 - STOT-repeated exposure. 11 - Aspiration hazard. 11 - 11.1.2. Mixtures. 11 - 11.1.3. Hazard Information. 11 - 11.1.5. Hazard Class. 12 - 12.4. Mobility in soil. 12 - 12.2. Persistence and degradability. 12 - 12.3. Bioaccumulative potential. 12 - 12.5. Results of PBT and vPvB assessment. 12 - 12.6. Other adverse effects. 13 - 13.1. Waste treatment methods. 15 - Further information. 15 - 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture. 15 - 15.2. Chemical safety assessment. 16 - Maximum content of VOC.
Text of Hazard Statements in Section 3	<p>Skin Sens. 1: H317 - May cause an allergic skin reaction.</p> <p>Eye Dam. 1: H318 - Causes serious eye damage.</p>

Chromazone Masterbatch

Revision 7

Revision date 2017-08-15

Other information

STOT SE 3: H335 - May cause respiratory irritation.
Repr. 2: H361f - Suspected of damaging fertility.

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. Heating during moulding will generate high levels of formaldehyde vapours which should be vented.

HMIS LABELLING

HEALTH 0, FLAMMABILITY 1, PHYSICAL HAZARD 1.