

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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Chameleon UV Rotary Screen Ink

Revision 1
Revision date 2015-07-09

SECTION 1: Identification of the substance/mixture and of the company/undertaking					
1.1. Product identifier	1.1. Product identifier				
Product name	Chameleon UV Rotary Screen Ink				
1.2. Relevant identified uses of t	he substance or mixture and uses advised against				
Description	Thermochromic pigment dispersion in UV curing resin.				
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-indicating products and temperature-sensitive decorative effects.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification -	Xi; R36-43
1999/45/EC	Symbols: Xi: Irritant.
Main hazards	Irritating to eyes. May cause sensitisation by skin contact.
2.1.2. Classification - EC	Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Dam. 1: H318; Repr. 2: H361f;
1272/2008	

2.2. Label elements	
Hazard pictograms	
Signal Word	Danger
Hazard Statement	Skin Irrit. 2: H315 - Causes skin irritation.
	Skin Sens. 1: H317 - May cause an allergic skin reaction.
	Eye Dam. 1: H318 - Causes serious eye damage.
	Repr. 2: H361f - Suspected of damaging fertility.
Precautionary Statement:	P201 - Obtain special instructions before use.
Prevention	P202 - Do not handle until all safety precautions have been read and understood.
	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
	P264 - Wash thoroughly after handling.

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2.2. Label elements

	P272 - Contaminated work clothing should not be allowed out of the workplace.			
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.			
Precautionary Statement:	P302+P352 - IF ON SKIN: Wash with plenty of water/ .			
Response	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact			
	lenses, if present and easy to do. Continue rinsing.			
	P308+P313 - IF exposed or concerned: Get medical advice/attention.			
	P310 -Immediately call a POISON CENTER/doctor/ .			
	P321 - Specific treatment (see on this label).			
	P332+P313 - If skin irritation occurs: Get medical advice/attention.			
	P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.			
Precautionary Statement:	P405 - Store locked up.			
Storage	· ·			
Precautionary Statement:	P501 - Dispose of contents/container to			
Disposal				

SECTION 3: Composition/information on ingredients

3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Ethoxylated (3) Trimethylolpropane		28961-43-5			20 - 30%	Xi; R36-43	
Triacrylate							
4,4'-Isopropylidenediphenol	604-030-00-0	80-05-7	201-245-8		1 - 10%	Repr. Cat. 3; R62 Xi; R37-41	
						R43 R52	
2-Hydroxy-2-methylpropiophenone		7473-98-5			1 - 10%	Xn; R22	
Formaldehyde%	605-001-00-5	50-00-0	200-001-8		0 - 0.5%	Carc. Cat. 3; R40 T;	
•						R23/24/25 C; R34 R43	

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Ethoxylated (3) Trimethylolpropane		28961-43-5			20 - 30%	Skin Irrit. 2: H315; Skin Sens.	
Triacrylate						1: H317;	
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;	
2-Hydroxy-2-methylpropiophenone		7473-98-5			1 - 10%	Acute Tox. 4: H302;	

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

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

Inhalation	Seek medical attention if irritation or symptoms	persist.



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May cause sensitisation by skin contact. Seek medical attention if irritation or symptoms persist. Seek medical attention if irritation or symptoms persist. Seek medical attention if irritation or symptoms persist. SECTION 5: Firefighting measures 5.1. Extinguishing media Carbon oxides. 5.2. Special hazards arising from the substance or mixture Burning produces irritating, toxic and obnoxious fumes. 5.3. Advice for firefighters Wear suitable respiratory equipment when necessary. SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures 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 Absorb with inert, absorbent material. 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 Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing. 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) Apply a barrier cream before handling the product. Chemical resistant gloves.	4.3. Indication of any immediate medical attention and special treatment needed
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3.1. Control parameters	SECTION 8: Exposure controls/personal protection
	8.1. Control parameters
	<u> </u>
4.4. Every and Limit Values	



8.1.1. Exposure Limit Values

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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 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total - inhalable dust: WEL 15 min limit mg/m3 total -
	respirable dust:	respirable dust:
Formaldehyde%	WEL 8-hr limit ppm: 2	WEL 8-hr limit mg/m3: 2.5
	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	Ensure adequate ventilation of the working area.	
controls		
8.2.2. Individual protection	Wear chemical protective clothing.	
measures		
Eye / face protection	Approved safety goggles.	
Skin protection -	Chemical resistant gloves (PVC).	
Handprotection		
Respiratory protection	Wear:. Suitable respiratory equipment.	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Various colours according to type.
Odour	Characteristic
Solubility	Immiscible in water

SECTION 10: Stability and reactivity

10.1. Reactivity

10.1. Reactivity	. 1. Reactivity	
	Stable.	
10.2. Chemical stability		
	Stable under normal conditions.	
10.3. Possibility of hazardous reactions		
	No Significant Hazard.	
10.4. Conditions to avoid		
	No Significant Hazard.	
10.5. Incompatible materials		

Strong oxidising agents.

10.6. Hazardous decomposition products

Burning produces obnoxious and irritating fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	May cause sensitisation by skin contact.

11.1.4. Toxicological Information



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11.1.4. Toxicological Information

2-Hydroxy-2-	Dermal Rat LD50: 6929 mg/kg	Oral Rat LD50: 1694 mg/kg
methylpropiophenone 4,4'-Isopropylidenediphenol	Oral Rat LD50: 4240 mg/kg	Oral Mouse LD50: 2500 mg/kg
	Dermal Rabbit LD50: 3 mL/kg	
Ethoxylated (3)	Dermal Rabbit LD50: >13 gm/kg	
Trimethylolpropane Triacrylate		
Formaldehyde%	Inhalation Rat LC50/2H h: 250 ppm	Oral Rat LD50: 500 mg/kg
	Oral Mouse LD50: 500 mg/kg	Inhalation Mouse LC50/2H h: 505 mg/m3
	Dermal Rabbit LD50: 270 mg/kg	

SECTION 12: Ecological information

12.1. Toxicity

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

Further information

No constituent has yet been asigned a risk phrase pertaining to ecological effects (R50 to R59) or the symbol N.

SECTION 13: Disposal considerations

General information

Dispose of in compliance with all local and national regulations.

SECTION 14: Transport information

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

	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Regulations	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.

SECTION 16: Other information

Other information

Revision	This document differs from the previous version in the following areas:.
	2 - 2.1.2. Classification - EC 1272/2008.
	2 - Signal Word.
	2 - Precautionary Statement: Prevention.
	2 - Precautionary Statement: Response.
	2 - Precautionary Statement: Storage.
	2 - Precautionary Statement: Disposal.
	12 - 12.1. Toxicity.
Text of risk phrases in Section	R22 - Harmful if swallowed.
3	R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.
	R34 - Causes burns.
	R36 - Irritating to eyes.
	R37 - Irritating to respiratory system.



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Other information	
	R40 - Limited evidence of a carcinogenic effect. R41 - Risk of serious damage to eyes. R43 - May cause sensitisation by skin contact. R52 - Harmful to aquatic organisms. R62 - Possible risk of impaired fertility.
Text of Hazard Statements in Section 3	Skin Irrit. 2: H315 - Causes skin irritation. Skin Sens. 1: H317 - May cause an allergic skin reaction. Eye Dam. 1: H318 - Causes serious eye damage. STOT SE 3: H335 - May cause respiratory irritation. Repr. 2: H361f - Suspected of damaging fertility. Acute Tox. 4: H302 - Harmful if swallowed.
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.
	All components are TSCA compliant.
HMIS LABELLING	HEALTH 1,. FLAMMABILITY 0,. PERSONAL PROTECTION : C. PHYSICAL HAZARD 0.

