

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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CHAMELEON UV SCREEN INK

Revision 3

Revision date 2011-06-02

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

1.1. Product identifier

Product name CHAMELEON UV SCREEN INK

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

Description Temperature sensitive, colour change ink.

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 devices.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC Xi; R36/37/38-43 R52/53
 Symbols: Xi: Irritant.

Main hazards Irritating to eyes, respiratory system and skin. May cause sensitisation by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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
Octylacrylate		2499-59-4			1 - 10%	Xi; R36/37/38 N; R51/53
Decacrylate		2156-96-9			1 - 10%	Xi; R36/37/38 N; R51/53
Acrylate					30 - 40%	Xi; R36/37/38
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-Benzyl-2-dimethylamino-4-morpholinobutylphenone	606-047-00-9	119313-12-1	404-360-3		1 - 10%	N; R50/53
2-ethylhexyl 4-(dimethylamino)benzoate		21245-02-3			1 - 10%	R53
Formaldehyde...% (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

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3.2. Mixtures

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Irritating to respiratory system. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air. Seek medical attention.
Eye contact	Irritating to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	Irritating to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITING.

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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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.
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6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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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.
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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.
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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.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

Formaldehyde...% (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

8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
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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	Wear.: Suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Various colours according to type.
Odour	Characteristic
Solubility	Insoluble in water

SECTION 10: Stability and reactivity

10.2. Chemical stability

	Stable under normal conditions.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	May cause sensitisation by skin contact.
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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
Decacrylate	Oral Rat LD50: 6460 mg/kg	Dermal Rabbit LD50: 6300 uL/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

SECTION 12: Ecological information

12.6. Other adverse effects

	Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
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SECTION 13: Disposal considerations

General information

	Dispose of in compliance with all local and national regulations.
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SECTION 14: Transport information

Further information

	The product is not classified as dangerous for carriage.
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SECTION 15: Regulatory information

Labelling

Symbols	The product is classified in accordance with 67/548/EEC. Xi: Irritant. 
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Labelling	
Risk phrases	R36/37/38 - Irritating to eyes, respiratory system and skin. R43 - May cause sensitisation by skin contact. R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrases	S24 - Avoid contact with skin. S37 - Wear suitable gloves.
SECTION 16: Other information	
Other information	
Revision	This document differs from the previous version in the following areas: 9 - 9.1. Information on basic physical and chemical properties (State). 9 - 9.1. Information on basic physical and chemical properties (Colour). 9 - 9.1. Information on basic physical and chemical properties (Odour). 9 - 9.1. Information on basic physical and chemical properties (Solubility).
Text of risk phrases in Section 3	R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed. R34 - Causes burns. R36/37/38 - Irritating to eyes, respiratory system and skin. R37 - Irritating to respiratory system. R40 - Limited evidence of a carcinogenic effect. R41 - Risk of serious damage to eyes. R43 - May cause sensitisation by skin contact. R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52 - Harmful to aquatic organisms. R53 - May cause long-term adverse effects in the aquatic environment. R62 - Possible risk of impaired 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.
	All components are TSCA compliant.
HMIS LABELLING	HEALTH 1, FLAMMABILITY 0, PHYSICAL HAZARD 1. PERSONAL PROTECTION : C.