



## SAFETY DATA SHEET

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### Black Backing Ink

Revision 0  
Revision date 24-Mar-2009

#### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

**Product name** Black Backing Ink

**Company** LCR Hallcrest Ltd  
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Connah's Quay  
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United Kingdom  
info@hallcrest.uk.com  
www.lcrhallcrest.com

**Telephone** +44 (0) 1244 818348

**Fax** +44 (0) 1244 818502

**Emergency telephone number** +44 (0) 1244 818348

**Intended use** Manufacture of temperature indicating devices.

#### 2 HAZARDS IDENTIFICATION.

**Main hazards** Flammable Harmful: may cause lung damage if swallowed.

#### 3 . COMPOSITION / INFORMATION ON INGREDIENTS.

##### Hazardous ingredients

	Conc.	CAS	EINECS	Symbols/Risk phrases
Ethylbenzene		100-41-4	202-849-4	F; R11 Xn; R20
Kerosine - unspecified - distillates (petroleum), hydrotreated light	1 - 10%	64742-47-8	265-149-8	Xn; R65
Straight run kerosine - solvent naphtha (petroleum), medium aliph.	20 - 30%	64742-88-7	265-191-7	Xn; R65

#### 4. FIRST AID MEASURES

**Skin contact** May cause irritation to skin. Wash off immediately with plenty of soap and water.  
Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.

**Eye contact** May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.

**Inhalation** Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air. Seek medical attention.

**Ingestion** Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist.

**General information** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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## 5. FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	Carbon oxides. Alcohol resistant foam.
<b>Fire hazards</b>	Burning produces irritating, toxic and obnoxious fumes.
<b>Protective equipment</b>	Wear suitable respiratory equipment when necessary.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Eliminate all sources of ignition. Wear suitable protective equipment.
<b>Environmental precautions</b>	Do not allow product to enter drains. Prevent further spillage if safe.
<b>Clean up methods</b>	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Use explosion proof equipment. Keep away from sources of ignition - No smoking.
<b>Storage</b>	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limits

Ethylbenzene	WEL 8-hr limit ppm: 100	WEL 8-hr limit mg/m3: 441
	WEL 15 min limit ppm: 125	WEL 15 min limit mg/m3: 552

<b>Engineering measures</b>	Ensure adequate ventilation of the working area.
<b>Respiratory protection</b>	If concentrations of hazardous ingredients exceeds exposure limits a NIOSH (National Institute for Occupational Safety and Health) approved respirator with organic filter must be used. If material is handled under mist, spray or dust forming conditions a P100 (99.97% efficiency) filter should be used in addition to the organic filter. Protection provided by air purifying filters is limited.
<b>Hand protection</b>	Chemical resistant gloves (PVC)
<b>Eye protection</b>	Approved safety goggles.
<b>Protective equipment</b>	Wear chemical protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Description</b>	Liquid.
<b>Colour</b>	Black.
<b>Odour</b>	Characteristic.
<b>Flash point</b>	46°C
<b>Flammability limits</b>	Flammable
<b>VOC (Volatile organic compounds)</b>	366 g/l

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions.
<b>Conditions to avoid</b>	Heat, sparks and open flames.
<b>Materials to avoid</b>	Oxidising agents.

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## 11. TOXICOLOGICAL INFORMATION

### Toxicological information

Ethylbenzene

Oral Rat LD50 = 3500 mg/kg

Dermal Rabbit LD50 = 17800 uL/kg

Inhalation Rat LC50/2H h = 55000 mg/m3

Inhalation Mouse LC50/2H h = 35500 mg/m3

## 12. ECOLOGICAL INFORMATION

## 13. DISPOSAL CONSIDERATIONS

### General information

Dispose of in compliance with all local and national regulations.

## 14. TRANSPORT INFORMATION

### ADR/RID

Proper Shipping pRINTING INK.

UN 1210

Name

Packing group III

Class 3

Hazard ID 30

### IMDG

UN 1210

Packing group III

Class 3

Marine pollutant NO

EmS Code F-E S-D

### IATA

UN 1210

Packing group III

Class 3

Subsidiary risk -

Packing Instruction 310

Maximum quantity 220 L

(Cargo)

Packing Instruction 309

Maximum quantity 60 L

(Passenger)

## 15. REGULATORY INFORMATION

### Labelling

The product is classified in accordance with 67/548/EEC.

### Symbols

Xn - Harmful



### Risk phrases

R10 - Flammable.

R65 - Harmful: may cause lung damage if swallowed.

### Safety phrases

S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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## 16. OTHER INFORMATION

<b>Text of risk phrases in Section 3.</b>	R11 - Highly flammable. R20 - Harmful by inhalation. R65 - Harmful: may cause lung damage if swallowed.
<b>Further information</b>	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.
<b>Maximum content of VOC</b>	366 g/l  All components are TSCA compliant.
<b>HMIS LABELLING</b>	HEALTH 1, FLAMMABILITY 2, PHYSICAL HAZARD 0 PERSONAL PROTECTION: G.