

## SAFETY DATA SHEET

according to Federal Register

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### IRR 121 C Ink

Revision 0

Revision date 2018-12-04

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

##### 1.1. Product identifier

**Product name** IRR 121 C Ink

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

**Description** Aqueous based ink containing acrylic resins.

##### 1.3. Details of the supplier of the safety data sheet

**Company** LCR Hallcrest  
**Address** 1911, Pickwick Lane,  
 Glenview,  
 IL 60026,  
 USA  
**Web** www.hallcrest.com  
**Telephone** +1 847 998 8580  
**Fax** +1 847 998 8051  
**Email** sales@hallcrest.com

##### Intended use

Manufacture of temperature-indicating products and temperature-sensitive decorative effects.

#### SECTION 2: Hazards identification

##### 2.2. Label elements

**Risk phrases** No Significant Hazard

#### 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
N-Methyl-2-pyrrolidone	606-021-00-7	872-50-4	212-828-1		0 - 0.5%	Repr. 1B: H360D; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315;
Ethoxylated 2,4,7,9-tetramethyldec-5-yne-4,7-diol		9014-85-1	500-022-5		0 - 0.5%	Skin Sens. 1: H317; Eye Dam. 1: H318;
Dipropylene Glycol Monomethyl Ether		34590-94-8	252-104-2		0 - 0.5%	Flam. Liq. 3: H226;

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

**Inhalation** May cause irritation to mucous membranes. Move the exposed person to fresh air.

**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.

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## 4.1. Description of 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.
Ingestion	May cause irritation to mucous membranes. DO NOT INDUCE VOMITING. Seek medical attention if irritation or symptoms persist.

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

Inhalation	No Significant Hazard.
Eye contact	May cause irritation to eyes. Seek medical attention if irritation or symptoms persist.
Skin contact	May cause irritation to skin. Rinse immediately with plenty of water.
Ingestion	If you feel unwell, seek medical advice (show the label where possible).

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

Inhalation	No Significant Hazard.
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.
Skin contact	No Significant Hazard. Rinse immediately with plenty of water. 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

	Use extinguishing media appropriate to the surrounding fire conditions.
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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.
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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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## 6.4. Reference to other sections

	For disposal see section 13.
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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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## Suitable packaging

	Plastic construction.
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## SECTION 8: Exposure controls/personal protection

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## 8.2. Exposure controls

	
Appropriate engineering controls	Ensure adequate ventilation of the working area.
Individual protection measures	Wear protective clothing.
Eye / face protection	In case of splashing, wear: Approved safety goggles.
Skin protection - Hand protection	Chemical resistant gloves (PVC).
8.2.3. Environmental exposure controls	Use appropriate container to avoid environmental contamination.
Occupational exposure controls	Protect clothing from contact with the product.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

State	Liquid
Color	Cream
Odor	Mild
pH	No data available
Melting point	Not applicable.
Boiling point	No data available
Flash point	Not applicable.
Relative density	No data available
Fat Solubility	No data available
Partition coefficient	No data available
Solubility	Miscible in water

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

	Stable.
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## 10.2. Chemical stability

	Stable under normal conditions.
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## 10.3. Possibility of hazardous reactions

	No Significant Hazard.
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## 10.4. Conditions to avoid

	No Significant Hazard.
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## 10.5. Incompatible materials

	No Significant Hazard. Strong acids. Strong bases.
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## 10.6. Hazardous decomposition products

	Burning produces obnoxious and irritating fumes.
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## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

	No data is available on this product.
Skin corrosion/irritation	No irritation expected.

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## 11.1. Information on toxicological effects

Serious eye damage/irritation	No data available.
Respiratory or skin sensitisation	No Significant Hazard.
Germ cell mutagenicity	No Significant Hazard.
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data is available on this product.
STOT-single exposure	No data is available on this product.
STOT-repeated exposure	No data is available on this product.
Aspiration hazard	No Significant Hazard.
Repeated or prolonged exposure	No data is available on this product.

## 11.1.2. Mixtures

	No data is available on this product.
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## 11.1.3. Hazard Information

	Refer to section 2.2.
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## 11.1.4. Toxicological information

N-Methyl-2-pyrrolidone	Oral Rat LD50: 3914 mg/kg Dermal Rabbit LD50: 8 gm/kg	Oral Mouse LD50: 5130 mg/kg
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## 11.1.5. Hazard Class

	Refer to section 2.2.
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## SECTION 12: Ecological information

## 12.3. Bioaccumulative potential

## Partition coefficient

	IRR 121 C Ink No data available
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## SECTION 13: Disposal considerations

## General information

	Dispose of in compliance with all local and national regulations. Is not hazardous when disposed of.
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## SECTION 14: Transport information

## 14.1. UN number

	The product is not classified as dangerous for carriage.
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## 14.2. UN proper shipping name

	The product is not classified as dangerous for carriage.
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## 14.3. Transport hazard class(es)

	The product is not classified as dangerous for carriage.
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## 14.4. Packing group

	The product is not classified as dangerous for carriage.
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## 14.5. Environmental hazards

	The product is not classified as dangerous for carriage.
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## 14.6. Special precautions for user

	The product is not classified as dangerous for carriage.
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## 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.
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## Further information

	The product is not classified as dangerous for carriage.
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## 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.
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	Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.
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## 15.2. Chemical safety assessment

	For this product a chemical safety assessment was not carried out.
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## Inventories

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
N-Methyl-2-pyrrolidone (2-Pyrrolidinone, 1-methyl-)	Y	N	Y 1.0	Y	N	N	N	N	N

## SECTION 16: Other information

## Other information

## Text of Hazard Statements in Section 3

	<p>Skin Irrit. 2: H315 - Causes skin irritation.</p> <p>Eye Irrit. 2: H319 - Causes serious eye irritation.</p> <p>STOT SE 3: H335 - May cause respiratory irritation.</p> <p>Repr. 1B: H360D - May damage the unborn child.</p> <p>Skin Sens. 1: H317 - May cause an allergic skin reaction.</p> <p>Eye Dam. 1: H318 - Causes serious eye damage.</p> <p>Flam. Liq. 3: H226 - Flammable liquid and vapour.</p>
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## Further information

## HMIS LABELLING

	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.
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	All components are TSCA compliant.
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	HEALTH 0,. FLAMMABILITY 0,. PHYSICAL HAZARD 0.
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