

# SAFETY DATA SHEET Irreversible Thermochromic Ink - NH

Page 1 of 4

MSDS004 Revision 4 Revision Date 05/27/2015

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** Irreversible Thermochromic Ink – NH

Additional Names Ranges: Black K170-NH, Black K115-NH, Black K90-NH, Black K75-NH, Black K60-NH, MB50Y-NH,

MB60-NH, Magenta K65-NH, Magenta K75-NH, Magenta K90-NH, Magenta K100-NH, Magenta K120-

NH, Magenta K200-NH, Blue K150-NH, Turquoise K150-NH.

**Description** Off-white liquid

Intended Use Temperature measurement and thermal mapping

Company LCR Hallcrest

1911 Pickwick Lane Glenview IL 60026 USA

Web www.hallcrest.com
Telephone +1 847 998 8580
Fax +1 847 998 6866
Email sales@hallcrest.com

 Emergency telephone number
 Chemtel
 Domestic:
 800-255-3924

 telephone number
 Intl:
 +01-813-248-0585

#### 2. HAZARDS IDENTIFICATION.

GHS Classification

Aquatic Chronic 3: H412

For full text of the H-Statements see Section 16.

**GHS Label Elements** 

Pictogram No symbol Signal Word No Signal Word

Hazard Statement H412 – Harmful to aquatic life with long lasting effects

**Precautionary Statements** P273 – Avoid release to the environment

P501 – Dispose of contents/container in accordance with regulations.

Other hazards which do not Non

result in classification:

3. COMPOSITION / INFORMATION ON INGREDIENTS.										
Hazardous ingredients	Classification	Conc.	CAS							
Urea derivative	Aquatic Chronic 2: H411	20-30%								
Heterocyclic Dye (Black Kromagen Ranges only)	Aquatic Chronic 3: H412	1-10%								
Isopropanol	Flam. Liq. 2 H225; Eye Irrit. 2: H319; STOT SE 3: H336;	1-10%	67-63-0							

#### 4. FIRST AID MEASURES

Description of first aid measures

Skin contact Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek

medical attention if irritation or symptoms persist.

Eye contact 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 Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITTING

Most important symptoms and effect, both acute or delayed.

Skin contact May cause irritation to the skin Eye contact May cause irritation to the eyes.

May cause irritation to the respiratory system. Inhalation

Indication of any immediate medical attention and special treatment needed.

Skin contact Seek medical attention if irritation or symptoms persist.

Eye contact Seek medical attention if irritation or symptoms persist. Inhalation Seek medical attention if irritation or symptoms persist. Ingestion Seek medical attention if irritation or symptoms persist.

#### 5. FIRE FIGHTING MEASURES

**Extinguishing Media** Use as appropriate: carbon dioxide (CO2), dry chemical, foam.

Specific hazards arising from

the chemical

Burning produces irritating, toxic and obnoxious fumes.

Special protective actions for

Wear suitable respiratory equipment when necessary. fire-fighters

#### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, protective equipment and emergency procedures Ensure adequate ventilation of the working area. Wear suitable protective equipment.

**Environmental Precautions** Methods and material for containment and cleaning up

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

Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for

disposal. Clean spillage area thoroughly with plenty of water.

#### 7. HANDLING AND STORAGE

**Precautions for Safe Handling** 

Individual protection measures

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying

and dispensing

Conditions for safe storage, including

Keep in a cool, dry, well ventilated area. Keep containers tightly closed. incompatibilities:

Store in correctly labelled containers.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limits Values** 

WEL 8-hr limit PPM Isopropanol 400 WEL 15 min limit ppm 500

WEL 8-hr limit mg/m3 999 WEL 15 min limit mg/m3 1250

**Individual Protection Measures** 

Individual protection

Wear chemical protective clothing. measures

Eye/face protection Approved safety goggles

Skin protection - Hand

Chemical resistant gloves (PVC).

protection Respiratory protection

Wear suitable respiratory equipment.

Appropriate Engineering

Ensure adequate ventilation of the working area.

Controls

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Liquid Off white Colors Odor Characteristic

Odor threshold N/A

N/A pН

**Melting Point/Freezing Point** No testing available.

**Initial Boiling Point and** 

**Boiling Range** Flash Point

No testing available.

**Evaporation rate** No testing available. Flammability No testing available.

Upper/Lower Flammability or

No testing available.

**Explosive Limits** Vapor Pressure

No testing available.

**Specific Gravity** 

0.95 - 1.1

10. STABILITY AND REACTIVITY

Reactivity No significant hazard

**Chemical Stability** Stable under normal conditions

Possibility of hazardous

reactions

Conditions to avoid No significant hazard

Incompatible materials Keep away from food, drink and animal freedingstuffs. **Hazardous Decomposition** Burning produces obnoxious and irritating fumes.

No significant hazard

**Products** 

11. TOXICOLOGICAL INFORMATION

**Toxilogical Information** 

Oral Rate LD50: 5000mg/kg Isopropanol

Dermal Rabbit LD50:12800 mg/kg

Oral Mouse LD50: 3600 mg/kg

Skin corrosion/irritation

No test data available

Serious eye damage/irritation

No test data available

Respiratory or skin

sensitization

No test data available

Germ cell mutagenicity No test data available Carcinogenicity No test data available Reproductive toxicity No test data available STOT-single exposure No test data available STOT-repeat exposure No test data available **Aspiration hazard** No test data available

Likely routes to exposure No data available

12. ECOLOGICAL INFORMATION

Toxicity No data is available on this product.

Persistence and No data available degradability Bioaccumulative potential No data available

Mobility in soil No data available Other adverse effects No data available

13. DISPOSAL CONSIDERATIONS

**General information** Dispose of in compliance with all local and national regulations.

## 14. TRANSPORT INFORMATION

**UN Number** This product is not classified as dangerous for carriage. **UN Proper Shipping Name** This product is not classified as dangerous for carriage. Transport Hazard class(es) This product is not classified as dangerous for carriage. Packing Group (if applicable) This product is not classified as dangerous for carriage. **Environmental Hazards** This product is not classified as dangerous for carriage. **Special Precautions for the User** This product is not classified as dangerous for carriage.

DOT This product is not classified as dangerous for carriage. **IMDG** This product is not classified as dangerous for carriage. IATA This product is not classified as dangerous for carriage.

**Further Information** For this product a chemical safety assessment was not carried out.

15. REGULATORY INFORMATION									
Inventories									
Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
Isopropanol	Y	Y	Y1.0	N	N	N	N	N	N

Page 4 of 4 MSDS004 Revision 4 Revision Date 05/28/2015

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 (EC) 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.

## 16. OTHER INFORMATION

Statement of Hazard Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Flam. Liq. 2: H225 - Highly flammable liquid and vapour. Eye Irrit. 2: H319 - Causes serious eye irritation.

STOT SE 3: H336 - May cause drowsiness or dizziness.

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.

HMIS LABELLING HEALTH 0, FLAMMABILITY 0, PHYSICAL HAZARD 0.

Revision History Revision 4: Major revision to include the requirements of the HCS/HazCom 2012 Final Rule.

Formaldehyde was removed from the SDS because it is below the reportable limit of 0.1%..