



MATERIAL SAFETY DATA SHEET

Irreversible Thermochromic Ink - NH

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MSDS004 Revision 2
Revision Date 2/8/2010

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Irreversible Thermochromic Ink - NH

Description Ranges: Black K170-NH, Black K115-NH, BlackK90-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.

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2. HAZARDOUS IDENTIFICATION.

Statement of Hazard

Properties

Color Off white.

Odor Characteristic.

State Liquid.

3. COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients

	Conc.	CAS
Isopropanol (2-Propanol)	2.5-25%	67-63-0
Heterocyclic Organic Dye - Only Black Chromax Ranges	2.5-25%	

Further information Only inks contain isopropanol.

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	May cause irritation to mucous membranes. Move the exposed person to fresh air.
Ingestion	May cause irritation to mucous membranes. DO NOT INDUCE VOMITING. Seek medical attention if irritation or symptoms persist.

5. FIRE FIGHTING MEASURES

Extinguishing media	Use extinguishing media appropriate to the surrounding fire conditions.
Fire hazards	Burning produces irritating, toxic and obnoxious fumes.
Protective equipment	Wear suitable respiratory equipment when necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation of the working area.
Environmental precautions	Do not allow product to enter drains. Prevent further spillage if safe.
Clean up methods	Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labeled containers for disposal. Clean spillage area thoroughly with plenty of water.

7. HANDLING AND STORAGE

Handling	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.
Storage	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labeled containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Isopropanol (2-Propanol)	ACGIH TLV TWA: 200 ppm Notations: A4 OSHA PEL 8hr TWA mg m3: 980	ACGIH TLV STEL: 400 ppm OSHA PEL 8hr TWA ppm: 400 Skin Designation: -
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Engineering measures	Ensure adequate ventilation of the working area.
Hand protection	Chemical resistant gloves (PVC)
Eye protection	In case of splashing, wear: Approved safety goggles.
Protective equipment	Wear protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Liquid.
Color	Off white.
Odor	Characteristic
pH	5 – 7.5
Boiling point	100°C
Flammability limits	n/a
Relative density	1.0 – 1.1
Water solubility	Miscible in water.

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

Inventories

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
Propan-2-ol	Y	N	Y 1.0	N	N	N	N	N	N

16. OTHER INFORMATION

Statement of Hazard

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.

TSCA

All components are TSCA compliant.

HMIS LABELLING

HEALTH 0, FLAMMABILITY 0, PHYSICAL HAZARD 0.