



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/ UNDERTAKING

Product Name : HP 831 Compatible Cyan Ink
Material Uses : Ink for use in an ink jet process.
Manufacturer : InkTec #98-12, NEUNGAN-RO, DANWON-GU, ANSAN-SI, GYEONGGI-DO, 425-839,
 KOREA
 Phone +82-31-494-0001
 Fax +82-31-492-2041
www.inktec.com

2. HAZARD IDENTIFICATION

Emergency Overview: Contact with skin and eyes may result in irritation.

Physical Hazards: Not classified as a physical hazard.

Health Hazards: Not classified as a health hazard.

Carcinogenicity: None of the ingredients in this ink is listed by IARC as a carcinogen.

Environmental Hazards: Not classified as an environmental hazard.

Other Hazards: Potential routes of exposure to this product are skin and/or eye contact.

Inhalation and ingestion are not expected to be significant routes of exposure for this product under normal use conditions. Complete toxicity data are not available for this formulation.

Label Elements: This product does not need to be labelled in accordance to OSHA.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

<u>CAS Number</u>	<u>Percent (%)</u>	<u>Chemical Name</u>	<u>Classification</u>
1) 7732-18-5	1-60	Water	
2) Not Available	1-5	Proprietary Organic Material	
3) Not Available	1-10	Blue Pigment	
4) 616-45-5	1-25	2-Pyrrolidone	Xi; R36

This is an aqueous ink formulation.

4. FIRST AID MEASURES

- Inhalation** : If inhaled move to fresh air. Inhalation of vapor is not expected to be significant routes of exposure for this product under normal use conditions.
- Ingestion** : Respiratory irritation may occur, if persists seek medical attention.
: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Skin Contact** : In case of contact, immediately flush skin with plenty of water while removing contaminated clothes and shoes. Wash clothing before reuse. Get medical attention if symptoms appear.
- Eye Contact** : Do not rub eyes. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.

5. FIRE-FIGHTING MEASURES

- Flammable Properties** : None known.
- Extinguishing Media** : Use dry chemical, CO₂, water spray (fog) or foam.
- Special Fire-fighting Procedures** : Not available
- Hazardous Thermal Decomposition Products** : Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions** : Use all necessary personal protective equipment.
- Environmental Precautions** : Do not let product enter drains. Do not flush into surface water or sanitary sewer systems.
- Methods for Cleaning Up** : Move containers from the spill area. Prevent from entering sewers, water courses, basements, or confined areas. Contain and collect spillage with inert absorbent material (e.g. sand, earth, vermiculite, or diatomaceous earth) and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilled product.

7. HANDLING AND STORAGE

- Handling** : Avoid contact with skin, eyes and clothing. Obtain and review special instructions before use.
- Storage** : Keep out of the reach of children. Keep away from excessive heat or cold.

Packaging Materials : Use original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits : Exposure limits have not been established for this product.

Engineering Controls : Use in an adequately ventilated area.

Personal Protective Equipment

Skin and Body : Use personal protective equipment to minimize exposure to skin and eyes. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Liquid
Color	: Cyan
Odor	: No Data Available
Boiling Point	: Not Determined
Melting Point	: Not Determined
Freezing Point	: No Data Available
Specific Gravity	: 1.05±0.01 (Water = 1)
Vapor Density	: No Data Available (Air = 1)
Vapor Pressure	: Not Determined
Evaporation Rate (Butyl Acetate = 1)	: No Data Available
Relative Density	: No Data Available
Solubility (Water)	: Soluble
pH	: 8 - 9
Flash Point	: No Data Available
Auto-Ignition Temperature	: Not Determined
Flammable Limits	: Not Determined
Volatility (w/w)	: No Data Available
VOC Volatility (w/w) Less Exempt Volatile	: No Data Available

10. STABILITY AND REACTIVITY

Stability	: This product is stable under recommended conditions of storage and use.
Conditions to Avoid	: Not compatible with oxidizing agents and strong bases
Hazardous Decomposition Products	: Hazardous decomposition products that may be produced if decomposition occurs include gaseous carbon monoxide, carbon dioxide, nitrogen oxides, and/or low molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Serious Eye Damage/Eye : No data available
Irritation
Further Information : Please refer to Section 3 for potential health effects and Section 4 for first aid measures. This ink formulation has not been tested for toxicological effects.

12. ECOLOGICAL INFORMATION

Eco toxicity : No data available
Heavy Metals : No data available
Persistence and Degradability : No data available

13. DISPOSAL CONSIDERATIONS

Waste Disposal : Waste must be disposed of according to the applicable state, federal, and local regulations.

14. TRANSPORTATION INFORMATION**DOT**

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

Further Information

Not regulated as dangerous goods under DOT, IATA, ADR, IMDG or RID.

Special precautions : Not listed
UN Number : Not applicable
Class : Not applicable
Proper shipping name : Not applicable
Packing group : Not applicable
Marine pollutant : None noted

15. REGULATORY INFORMATION**US Federal Regulations**

US TSCA 12(b): Does not contain listed chemicals.

US TSCA Export Notification(40 CFR 707, Subpt. D) : Not Regulated

DEA List 2, Essential Chemicals(21 CFR 1310.02(b) and 1310.04(f)(2)& Chemical Code Number : Not listed.

DEA List 1&2 , Exempt Chemical Mixtures(21 CFR 1310.02(c) : Not regulated.

CERCLA Reportable Quantity

SARA of 1986

Hazard Categories : Immediate Hazard- No
 Delayed Hazard- No
 Fire Hazard- No
 Pressure Hazard-No
 Reactivity Hazard- No

SARA 302 Extremely Hazardous Substance : No

SARA 311/312 Extremely Hazardous Chemical : No

State Regulations

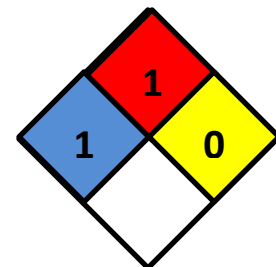
US. Massachusetts RTK- Substance List
 2-Pyrrolidone(cas#616-45-5) Listed
US. Pennsylvania RTK- Hazardous Substance
 2-Pyrrolidone(cas#616-45-5)
US. Rhode Island RTK- Substance List
 Not Regulated

16. OTHER INFORMATION

Date of Issue : April 2015
Version : 1.01

HMIS® Ratings

Health:1
 Flammability:1
 Physical Hazard:1



NFPA ratings

Health:1

Flammability:1

Physical Hazard:1

Notice to the Reader:

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.