



## MATERIAL SAFETY DATA SHEET

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

**Product Name** : HP 831 Compatible Black 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](http://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.

**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 mixture.

Carbon black is classified by the IARC as a Group 2B Carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, does not present carcinogenic risk. None of the other ingredients in this preparation are classified as carcinogens according to OSHA, EU, ACGIH, IARC, MAK, NTP.

**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	1-70	Water	
2) Not Available	1-5	Proprietary Organic Material	
3) 1333-86-4	1-5	Carbon Black	
4) 616-45-5	1-20	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, CO<sub>2</sub>, 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	: Black
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)	: No Data Available
Less Exempt Volatile	

## 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 Irritation : No data available

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

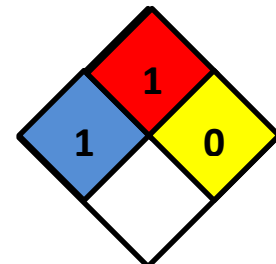
: April 2015

#### 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.