# MATERIAL SAFETY DATA SHEET

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

Identi1ication o1 the

EB22BL pigment Inkjet substance/preparation

Use o1 the

substance/preparation

**Issue date** 10-May-2021

Version # 01 CAS# Mixture

Company identilication Zhuhai bentsai printing Technology Co., Ltd.

Zone B, 2nd floor, No. 115 Huawei Road, Xiangzhou, Zhuhai,

GuangdongProvince,P.R. China

**Emergency Information** Tel: 0756-8895581

Fax: 0756-8895581

## 2. HAZARDS IDENTIFICATION

**GHS label elements** 

Signal word None. **Hazard symbols** None. **Hazard statement** None.

**Precautionary statement** 

**Prevention** None. Response None. **Storage** None. **Disposal** None.

**Physical hazards** Not classified as a physical hazard. **Health hazards** Not classified as a health hazard.

**Environmental hazards** Not classified as an environmental hazard.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS#	Percent	EC-No.	Classi1ication
Water	7732-18-5	70-80	231-791-2	
1-(2-hydroxyethyl)-2-pyrrolidone	3445-11-2	< 10	222-359-4	
2-pyrrolidone	616-45-5	< 6.5	210-483-1	Xi;R36
Aliphatic diol	Proprietary	< 5	Proprietary	
invisible ink.colorant	Proprietary	<6.5	Proprietary	

**Composition comments** This ink supply contains an aqueous ink formulation.

For the full text of the R phrases mentioned in this Section, see Section 16.

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4. FIRST AID MEASURES

Inhalation Move to fresh air. If symptoms persist, get medical attention.

Skin contact Wash affected areas thoroughly with mild soap and water. Get medical attention if

irritation develops or persists.

Do not rub eyes. Immediately flush with large amounts of clean, warm water (lo. pressure) Eye contact

for at least 15 minutes or until particles are removed. If irritation persists get medical attention.

**Ingestion** If ingestion of a large amount does occur, seek medical attention. **General advice** Wash affected areas thoroughly with mild soap and water.

5. FIRE-FIGHTING MEASURES

Flash point > 212.0 °F (> 100.0 °C) Pensky-Martens Closed Cup US EPA Method 1020

Suitable extinguishing media Dry chemical, CO2, water spray or regular foam. None known.

None known.

Extinguishing media which must not be used 1or sa1ety

reasons

**Unusual 1ire & explosion** hazards

Speci1ic methods None established. Hazardous combustion Refer to section 10.

products

**6. ACCIDENTAL RELEASE MEASURES** 

**Personal precautions** Wear appropriate personal protective equipment.

**Environmental precautions** Do not let product enter drains. Do not flush into surface water or sanitary sever system.

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing.

**Storage** Keep out of the reach of children. Keep away from excessive heat or cold.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational exposure limits** No exposure limits noted for ingredient(s).

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Additional exposure data Exposure limits have not been established for this product.

**Engineering measures to** 

reduce exposure

Use in a well ventilated area.

Personal protective equipment

Skin and body protection Not available.

General Use personal protective equipment to minimize exposure to skin and eye. **Hygiene** measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** 

Physical state Liquid. Color invisible ink Odor Not available. pН 8.5 - 9.5 Melting point/Freezing point Not available. **Boiling point, initial boiling** Not available.

point, and boiling range

Flash point > 212.0 °F (> 100.0 °C) Pensky-Martens Closed Cup US EPA Method 1020

Not available. **Auto-ignition temperature** Flammability limit - lower Not available.

(%)

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Not available.

Flammability limit - upper

(%)

Vapor pressure Not available. Speci1ic gravity Not available.

Solubility(ies)

Solubility (water) Not available. Partition coe11icient Not available. (n-octanol/water)

**Decomposition temperature** Not available. **Viscosity** 3.2 - 3.3 cP

Other data

VOC (Weight %) < 265 g/L

#### 10. STABILITY AND REACTIVITY

Conditions to avoid Not available.

**Hazardous decomposition** products

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon

dioxide and/or low molecular weight hydrocarbons.

Stability Stable under recommended storage conditions. Materials to avoid Incompatible with strong bases and oxidizing

agents. Hazardous polymerization Will not occur.

#### 11. TOXICOLOGICAL INFORMATION

**Acute toxicity** Based on available data, the classification criteria are not met Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/eye

irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Skin sensitization Based on available data, the classification criteria are not met. Respiratory sensitization Based on available data, the classification criteria are not met Carcinogenicity Based on available data, the classification criteria are not met Germ cell mutagenicity Based on available data, the classification criteria are not met. **Toxic to reproduction** Based on available data, the classification criteria are not met. Speci1ic target organ toxicity Based on available data, the classification criteria are not met.

- single exposure

Based on available data, the classification criteria are not met.

Speci1ic target organ toxicity - repeated exposure

**Aspiration hazard** 

Based on available data, the classification criteria are not met

Other in1ormation Complete toxicity data are not available for this specific formulation

Refer to Section 2 for potential health effects and Section 4 for first aid measures.

Toxicological data

Components	Species	Test Results	
2-pyrrolidone (CAS 616-45	5-5)		
Acute			
Oral			
LD50	Guinea pig	5700 mg/kg	
	Rat	5700 mg/kg	
Aliphatic diol (CAS Propriet	tary)		
Acute			
Dermal			
LD50	Rabbit	> 10000 mg/kg	
Oral			
LD50	Rat	3680 mg/kg	

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Components **Species Test Results** Other LD50 1835 mg/kg Mouse

## 12. ECOLOGICAL INFORMATION

**Ecotoxicological data** 

**Components Species Test Results** 

2-pyrrolidone (CAS 616-45-5)

Aquatic

Crustacea EC50 Water flea (Daphnia pulex) 13.21 mg/l, 48 hours

**Ecotoxicity** No information available.

This product is highly soluble in water.

**Environmental e11ects** Not available. Persistence / degradability Not available.

**Bioaccumulation** 

**Bioaccumulative potential** 

Octanol/water partition coe11icient log Kow

2-pyrrolidone -0.85 Aliphatic diol -0.106**Aquatic toxicity** No data available for this product.

**Mobility** Not available.

#### 13. DISPOSAL CONSIDERATIONS

**Disposal instructions** Do not allo. this material to drain into se.ers/water supplies.

Dispose of .aste material according to Local, State, Federal, and Provincial Environmental

# 14. TRANSPORT INFORMATION

DOT

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

**ADR** 

Not regulated as dangerous goods.

Further in1ormation Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

## 15. REGULATORY INFORMATION

Labeling

R-phrase(s) None. S-phrase(s) None.

Regulatory in1ormation If the waste in the form of purchase, this product does not belong to the U.S.

hazardouswasteproducts out. Users should check if local lawsandregulations on hazardous waste.ResourceRecovery Act, the processing of theuserresponsible for determining: both will beincluded in the hazardous waste containing suchmaterials or derivatives. (40CFR26120-24).

Not included in the DangerousGoods

**Kyoto protocol** 

Not applicable.

**Montreal Protocol** 

Not applicable.

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#### **Rotterdam Convention**

Not applicable.

#### **Stockholm Convention**

Not applicable.

## 16. OTHER INFORMATION

Wording o1 the R-phrases in sections 2 and 3

R36 Irritating to eyes.

Disclaimer

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Section 1 above and may not meet regulatory requirements in other countries.

**Prepared by** Hewlett-Packard Company

**Issue date** 06-April-2019

Version # 01

This data sheet contains changes 1rom the previous version in section(s):

1. Product and Company Identification: Alternate Trade Names Composition / Information on Ingredients: Ingredients

Physical & Chemical Properties: Multiple Properties

GHS: Classification

### Explanation o1 abbreviations

ACGIH American Conference of Governmental Industrial Hygienists

CAS Chemical Abstracts Service

CERCLA Comprehensive Environmental Response Compensation and Liability Act

**CFR** Code of Federal Regulations

COC Cleveland Open Cup

**DOT** Department of Transportation

**EPCRA** Emergency Planning and Community Right-to-Kno. Act (aka SARA)

IARC International Agency for Research on Cancer

NIOSH National Institute for Occupational Safety and Health

NTP National Toxicology Program

**OSHA** Occupational Safety and Health Administration

**PEL** Permissible Exposure Limit

RCRA Resource Conservation and Recovery Act

**REC** Recommended

**REL** Recommended Exposure Limit

SARA Superfund Amendments and Reauthorization Act of 1986

STEL Short-Term Exposure Limit

**TCLP** Toxicity Characteristics Leaching Procedure

**TLV** Threshold Limit Value

TSCA Toxic Substances Control Act VOC Volatile Organic Compounds

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