



Report ID: MSICFXZG6444967U3

# MSDS

## Ink Cartridge

Sample Name  
& Model

BT-2560N、BT-2561N、BT-2562N、BT-2563N、BT-2564N、BT-2560NL、BT-2561NL、  
BT-2562NL、BT-2563NL、BT-2564NL、BB21B、BB21M、BB21Y、BB21C、BB21G、  
BF21B、BF21C、BF21M、BF21Y、BF21G、TC21B、TC21C、TC21M、TC21Y、TC21G、  
BT21B、BT21C、BT21M、BT21Y、BT21G、BC300、BC300B、BC300C、BC300M、  
BC300Y、BC300G、BC300S、BC310B、BC320B、BC330B、BC340B、BC350B、BC360B、  
BC370B、BC890B、BC380、BC380B、BC380C、BC380M、BC380Y、BC380G、BC380S

Applicant

Zhuhai Bentsai Electronics Co., Ltd.

Address

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No.: MSICFXZG6444967U3  
Code: t9hr5n



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## Material Safety Data Sheet

Reference to ST/SG/AC.10/30/Rev.10 (GHS)

### Section 1 - Chemical Product and Company Identification

#### Chemical Product Identification

**Sample Name:** Ink Cartridge

**Sample Model:** BT-2560N、BT-2561N、BT-2562N、BT-2563N、BT-2564N、BT-2560NL、BT-2561NL、BT-2562NL、BT-2563NL、BT-2564NL、BB21B、BB21M、BB21Y、BB21C、BB21G、BF21B、BF21C、BF21M、BF21Y、BF21G、TC21B、TC21C、TC21M、TC21Y、TC21G、BT21B、BT21C、BT21M、BT21Y、BT21G、BC300、BC300B、BC300C、BC300M、BC300Y、BC300G、BC300S、BC310B、BC320B、BC330B、BC340B、BC350B、BC360B、BC370B、BC890B、BC380、BC380B、BC380C、BC380M、BC380Y、BC380G、BC380S

**Recommended Uses:** N/A

**Restrictions on Use:** N/A

**Supplier Name:** Zhuhai Bentsai Electronics Co., Ltd.

**Address:** 2/F, Block B, Factory Building 1, 115 Huawei Road, Xiangzhou District, Zhuhai

**Phone Number:** 13427715191

**FAX:** /

**E-mail:** huangzengxiang@bentsai.net

**Emergency Phone Number:** 13427715191

### Section 2 - Hazards Identification

**Emergency overview:** Black liquid. Causes serious eye irritation, may cause an allergic skin reaction.

#### Classification according to GHS

Sensitisation, skin (1B)

Serious eye damage/eye irritation (2)

Hazardous to the aquatic environment, long-term hazard (3)

#### Label elements

**Hazard pictogram(s):**



**Signal word:**

Warning

**Hazard statement(s):**

H317 May cause an allergic skin reaction



H319 Causes serious eye irritation

H412 Harmful to aquatic life with long lasting effects

**Precautionary statement(s):**

**Prevention:**

P261 Avoid breathing gas, mist, vapours, spray.

P264 + P265 Wash skin and clothing thoroughly after handling. Do not touch eyes.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves, protective clothing, eye protection and face protection.

P273 Avoid release to the environment.

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty water.

P333 + P317 If skin irritation or rash occurs: Get medical help.

P321 Specific treatment (See additional emergency instructions).

P362 + P364 Take off contaminated clothing and wash it before reuse.

P305 + P354 + P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage:**

None.

**Disposal:**

P501 Send contents to approved waste treatment plants.

**Other hazards**

**Physical and chemical hazards:** See Section 10

**Human health hazards:** See Section 11

**Environmental hazards:** See Section 12

### Section 3 – Composition/Information on Ingredients

**Chemical characterization:** Mixture

Chemical Composition	CAS No.	EC#	Weight (%)
Water	7732-18-5	231-791-2	70
1-(2-hydroxyethyl)pyrrolidin-2-one	3445-11-2	222-359-4	9
Butyrolacetam	616-45-5	210-483-1	6
Acetylenic diol	126-86-3	204-809-1	4
Carbon black	1333-86-4	215-609-9	6
Cyclohexanone	108-94-1	203-631-1	5



## Section 4 - First Aid Measures

### Description of first aid measures

**General information** Normal use does not require special measures , industrial production in the long term , refer to the following:

#### After eye contact

Flush eyes with water.

#### After skin contact

Wash with water and soap.

#### After inhalation

Remove victim to fresh area.

#### After swallowing

Do not induce vomiting. Get medical attention.

**Personal protective equipment for first-aid responders:** No data available.

**Most important symptoms/effects, acute and delayed:** No data available.

**Indication of immediate medical attention and special treatment needed:** No data available.

## Section 5 - Fire Fighting Measures

### Suitable extinguishing media:

Use extinguishing agent suitable for local conditions and the surrounding environment. Such as dry powder, CO<sub>2</sub>.

**Unsuitable extinguishing media:** No data available.

**Specific Hazards arising from the chemical:** No data available.

### Specific protective actions for fire-fighters:

Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

## Section 6 - Accidental Release Measures

Normal use does not require special measures, industrial production in the long term, refer to the following:

### Personal precautions:

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

### Protective equipment:

No data available.

### Emergency procedures:

Remove ignition sources, evacuate area. Sweep up using a method that does not generate dust.

Collect as much of the spilled material as possible, placed the spilled material into a suitable disposal container. Keep spilled material out of sewers, ditches and bodies of water.



**Environmental precautions:**

Do not allow material to be released to the environment without proper governmental permits.

**Methods and materials for containment and cleaning up:**

For all waste handling must refer to United Nations, National and Local Regulations for disposal.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**Section 7 - Handling and Storage**

Normal use does not require special measures, industrial production in the long term, refer to the following:

**Precautions for safe handling:**

Storage in a cold, dry, well ventilated environment. Store away from food and water supplies. Wash your hands thoroughly before eating and drinking. Storage of chemicals needed to prevent the generation and accumulation of static electricity when handling the container.

**Conditions for safe storage, including any incompatibilities:**

Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time of sunlight. Keep container tightly sealed.

**Section 8 - Exposure Controls/Personal Protection**

**Control parameters**

CAS No.	ACGIH	NIOSH	OSHA
7732-18-5	N/A	N/A	N/A
3445-11-2	N/A	N/A	N/A
616-45-5	N/A	N/A	N/A
126-86-3	N/A	N/A	N/A
1333-86-4	TLV-TWA 3mg/m <sup>3</sup>	REL-TWA 3.5mg/m <sup>3</sup>	PEL-TWA 3.5mg/m <sup>3</sup>
108-94-1	TLV-TWA 20ppm TLV-STEL 50ppm	REL-TWA 25ppm	PEL-TWA 50ppm PEL-TWA 200mg/m <sup>3</sup>

**Engineering control:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

**Personal Protective Equipment**



**Respiratory protection:** Wear suitable protective mask in order to reduce the respiratory system. A large number of leakages, wear chemical protective clothing, including self-contained breathing apparatus.

**Hand Protection:** Wear appropriate protective gloves to reduce skin contact.

**Eyes Protection:** Wear safety goggles or eye protection combined with respiratory protection.

**Skin and Body Protection:** Working environment required, wear suitable protective clothing to minimize contact with skin. The type of protective equipment must be according to the concentration and the content of certain hazardous substances in the workplace.

## Section 9 - Physical and Chemical Properties

### Information on basic physical and chemical properties

<b>Colour:</b>	Black.
<b>Physical State:</b>	Liquid.
<b>Odour:</b>	Not available.
<b>pH:</b>	8.4 (25.3°C, 73%RH).
<b>Melting point/freezing point:</b>	Not available.
<b>Boiling point or initial boiling point and boiling range:</b>	Not available.
<b>Flash Point:</b>	>100.0°C (Closed cup).
<b>Flammability:</b>	Non-flammable.
<b>Solubility:</b>	Easily soluble in water.
<b>Lower and upper explosion limit/flammability limit:</b>	Not available.
<b>Auto-ignition temperature:</b>	Not available.
<b>Decomposition temperature:</b>	Not available.
<b>Kinematic viscosity:</b>	Not available.
<b>Partition coefficient: n-octanol/water (log value):</b>	Not available.
<b>Vapour pressure:</b>	Not available.
<b>Density and/or relative density:</b>	Not available.
<b>Relative vapour density:</b>	Not available.
<b>Particle characteristics:</b>	Not available.

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable.

**Possibility of hazardous reaction:** No data available.

**Conditions to Avoid:** Incompatible materials.

**Incompatible materials:** No data available.



**Hazardous Decomposition Products:** Carbon oxide.

## Section 11 - Toxicological Information

### Acute Toxicity:

CAS No.	LC50/LD50
7732-18-5	No data available.
3445-11-2	No data available.
616-45-5	No data available.
126-86-3	No data available.
1333-86-4	No data available.
108-94-1	LD50 Rat (oral): 1534mg/kg; LD50 Rabbit (Dermal): 947mg/kg; LC50 Rat (Inhalation: Vapours): 2450ppm

**Skin corrosion/irritation:** No data available.

**Serious eye damage/irritation:** No data available.

**Respiratory or Skin sensitization:** No data available.

**Germ Cell mutagenicity:** No data available.

**Carcinogenicity:** No data available.

**Reproductive toxicity:** No data available.

**Specific target organ toxicity-Single exposure:** No data available.

**Specific target organ toxicity-Repeated exposure:** No data available.

**Aspiration hazard:** No data available.

**Information on the likely routes of exposure:** No data available.

**Eye:** No data available.

**Skin:** No data available.

**Ingestion:** No data available.

**Inhalation:** No data available.

## Section 12 - Ecological Information

### CAS# 108-94-1

**Ecological Toxicity:** LC50: 527mg/L - fish (Fathead minnow) - 96h

**Persistence and degradability:** No data available.

**Bioaccumulative Potential:** Bioconcentration in aquatic organisms should be minima. (BCF: 0.14 and 0.39,  $K_{ow}$ : 0.81)

**Mobility in Soil:** Expected to have very high mobility in soil. ( $K_{oc}$ : 17)

**Other adverse effects:** No data available.



**Section 13 - Disposal Considerations**

**Disposal methods:**

**Recommendation:**

Consult state, local or national regulations to ensure proper disposal.

**Uncleaned packaging**

**Recommendation:** Disposal must be made according to official regulations.

**Section 14 - Transport Information**

<b>UN or ID Number</b>	
IATA, IMDG	N/A
<b>Proper Shipping Name/Description</b>	
IATA, IMDG	N/A
<b>Class or Div. (Sub Hazard)</b>	
IATA, IMDG	Not Subjected for transport of dangerous goods
<b>Packing Group</b>	
IATA, IMDG	N/A
<b>Hazard Label</b>	
IATA, IMDG	N/A
<b>Environmental hazards</b>	
<b>Marine pollutant:</b>	No
<b>IMDG EmS:</b>	/
<b>Special precautions for user</b>	No information available.

**Transport Fashion:** By air, by sea.

**Section 15 - Regulatory Information**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

CAS No.	TSCA	IECSC	DSL/NDSL	EINECS/ ELINCS/ NLP
7732-18-5	Listed	Listed	Listed DSL	Listed
3445-11-2	Listed	Listed	Listed DSL	Listed
616-45-5	Listed	Listed	Listed DSL	Listed
126-86-3	Listed	Listed	Listed DSL	Listed





1333-86-4	Listed	Listed	Listed DSL	Listed
108-94-1	Listed	Listed	Listed DSL	Listed

## Section 16 - Other Information

Issue Date: 2024-09-24

Issue Department: Technical department

Modification record:

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

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.

Other Information:

CAS: (Chemical Abstracts Service);

EC: (European Commission);

ACGIH: (American Conference of Governmental Industrial Hygienists);

NIOSH: (US National Institute for Occupational Safety and Health);

OSHA: (US Occupational Safety and Health);

TLV: (Threshold Limit Value)

TWA: (Time Weighted Average);

STEL: (Short Term Exposure Limit);

PEL: (Permissible Exposure Level);

REL: (Recommended Exposure Limit);

PC-STEL: (Permissible concentration-short time exposure limit);

PC-TWA: (Permissible concentration-time weighted average);

IARC: (International Agency for Research on Cancer);

LC50: (Lethal concentration, 50 percent kill);

LD50: (Lethal dose, 50 percent kill);

EC50: (Median effective concentration);

BCF: (Bioconcentration Factor);

BOD: (Biochemical oxygen demand);

IECSC: (Inventory of Existing Chemical Substances in China);

NOEC: (No observed effect concentration);

NTP: (US National Toxicology Program);

RTECS: (Registry of Toxic Effects of Chemical Substances);

TOC: (Total Organic Carbon);



TSCA: (Toxic Substances Control Act of USA);  
DSL: (the Domestic Substances List of Canada);  
NDSL: (the Non-domestic Substances List of Canada);  
IATA: (International Air Transport Association);  
IMDG: (International Maritime Dangerous Goods);  
TDG: (Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations)

Approver: *Chunmei Zheng*

\*\*\*End of report\*\*\*

