



## Material Safety Data Sheet

Ball-pen ink 322 black

### MATERIAL SAFETY DATA SHEET

This MSDS Service is provided by HANGZHOU ANJIAN TECHNOLOGY CO., LTD.

#### Remarks:

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A handwritten signature in black ink that reads 'Caixia Shao'.

Approval by: CAIXIA SHAO

Date: 01/07/2008



## Material Safety Data Sheet

**Ball-pen ink 322 black**

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Ball-pen ink 322 black

#### Supplier Information

**Company Name:** Changshu Hedian Culture and Stationery Manufacturing Co., Ltd  
**Address:** Hedian Countryside, Mocheng Town, Changshu City, Jiangsu Province, China  
**Tel:** (86) (0512) (81588231)  
**Fax:** (86) (0512) (81588232)  
**Email:** weixffj@163.com  
**Emergency Telephone:** 13626193265

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/Preparation:** Preparation

Ingredients Name	Content/%	CAS NO.	RISK PHRASES
Cationic Yellow X-8GL	0-15	12217-50-4	-
Methyl Violet 5BN	0-10	548-62-9	R22 R41 R50-53
Basic Brilliant Blue B	0-10	2580-56-5	-
Rhodamine B	0-10	81-88-9	-
Benzyl alcohol	40	100-51-6	R20/22
Ethylene glycol monophenyl ether	10	122-99-6	R22 R36
Epoxy resin	10	61788-97-4	-
Alkyd resin	5	68459-31-4	-
Triethanolamine oleate	4	102-71-6	R36
Polyvinylpyrrolidone (PVP)	3	9003-39-8	-

**Note:** See Section 8 of MSDS for exposure limit data for these ingredients. Full text of risk phrases appearing in section 2: see section 16.

**The preparation is not classified as dangerous under the Hazard Communication Standard**

This MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of the product.

### 3. HAZARDS IDENTIFICATION



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### Emergency Overview

Harmful by inhalation and if swallowed

Risk of serious damage to eyes

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**Primary Route(s) of Exposure:** Eye contact, skin contact, inhalation and ingestion.

### Potential Health Effects

**Acute (short term):** Irritating to eyes. Harmful by inhalation and if swallowed

**Chronic (long term):** Risk of serious damage to eyes.

**Potential Environmental Effects:** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

## 4. FIRST AID MEASURES

**Skin contact:** Wash affected area with soap and water. If symptoms develop seek medical attention.

**Eye contact:** If contact with the eye(s) occurs, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Seek IMMEDIATE medical attention.

**Inhalation:** Remove from contaminated area. Apply artificial respiration if not breathing. Give oxygen through a face mask if breathing is difficult. (If antidote is available, take it immediately.) Seek IMMEDIATE medical attention.

**Ingestion:** Never give anything by mouth if victim is semi-conscious or unconscious. Immediately wash out mouth with water. Seek IMMEDIATE medical attention.

**Note to physicians:** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

### Flammable Properties

**Flash Point:** Approx. 93°C

Test Method: Open Cup



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**Explosion limits:**

**Lower:** Not available

**Upper:** Not available

**Extinguishing Media:** use agent most appropriate to extinguish surrounding fire

**Fire & Explosion Hazards:** There is no fire or explosion hazard of this product.

**Fire Fighting Equipment:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

**Accidental Release Measures:** Increase ventilation. Evacuate all unnecessary personnel. Wear protective clothing to minimize skin and eye exposure. If possible contain the spill. Place inert absorbent material onto spillage. Mop up material and place into the same container.

### 7. HANDLING AND STORAGE

**Handling:** Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Wash clothing before reuse.

**Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

### 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

**Engineering controls:** Provide sufficient ventilation to keep airborne levels below the exposure limit. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**Respiratory protection:** If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision.



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**Skin protection:** Wear gloves of impervious material.

**Eye protection:** Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken.

### Exposure guidelines

Not established.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Liquid

**Color:** Black

**Odor:** Not available

**Vapour Pressure:** Not available

**PH:** 7.2-8.5

**Density (Water= 1):** 1.1-1.3

**Ignition temperature:** Not available

**Explosion limits:** Lower: Not available  
Upper: Not available

**Boiling Point:** Not available

**Freezing point:** Not available

**Flash Point:** Approx. 93°C  
Test Method: Open Cup

**Melting point:** Not available

**Solubility in Water:** Not available

**Viscosity:** Not available

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions of storage and handling.

**Materials to avoid:** Strong oxidizing agents, strong acids and strong alkalis.

**Conditions to avoid:** High temperature

**Hazardous decomposition products:** oxides of carbon



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**Hazardous polymerization:** Will not occur.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity data

No toxicity data available for this product. Please refer to following ingredient's data:

**Methyl Violet 5BN** CAS# 548-62-9:

Oral, mouse: LD50 = 96 mg/kg;

Oral, rabbit: LD50 = 150 mg/kg;

Oral, rat: LD50 = 420 mg/kg;

**Rhodamine B** CAS# 548-62-9:

Oral mouse LD50: 887 mg/kg; investigated as a mutagen, tumorigen, reproductive effector.

**Benzyl alcohol** CAS# 100-51-6:

Draize test, rabbit, skin: 100 mg/24H Moderate;

Inhalation, mouse: LC50 = >500 mg/m3;

Inhalation, rat: LC50 = >500 mg/m3;

Oral, mouse: LD50 = 1360 mg/kg;

Oral, rabbit: LD50 = 1040 mg/kg;

Oral, rat: LD50 = 1230 mg/kg;

Skin, rabbit: LD50 = 2000 mg/kg;

Skin, rat: LD50 = 100 pph/90M;

**Ethylene glycol monophenyl ether** CAS# 122-99-6:

Draize test, rabbit, eye: 6 mg Moderate;

Draize test, rabbit, eye: 250 ug/24H Severe;

Draize test, rabbit, skin: 500 mg/24H Mild;

Oral, mouse: LD50 = 933 mg/kg;

Oral, rat: LD50 = 1260 mg/kg;

Skin, rabbit: LD50 = 5 mL/kg;

Skin, rat: LD50 = 14422 mg/kg;

**Triethanolamine oleate** CAS# 102-71-6:

Draize test, rabbit, eye: 20 mg Severe;

Draize test, rabbit, eye: 10 mg Mild;

Draize test, rabbit, skin: 560 mg/24H Mild;

Oral, mouse: LD50 = 5846 mg/kg;

Oral, rabbit: LD50 = 2200 mg/kg;

Oral, rat: LD50 = 4920 uL/kg;

Skin, rabbit: LD50 = >20 mL/kg;



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Skin, rat: LD50 = >16 mL/kg;

### Other information:

IARC: not listed

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity:

No ecotoxicity data available. Please refer to following ingredient's data:

**Benzyl alcohol** CAS# 100-51-6:

Fish: Fathead Minnow: LC50: 770-460 mg/l; 48-96 h;

Daphnia: Water Flea: EC50: 400 mg/l; 48h;

Fish: Leuciscus idus: LC50: 646 mg/l; 48h;

**Mobility:** Not determined.

### Biodegradability:

No data available. Please refer to following ingredient's data:

**Benzyl alcohol** CAS# 100-51-6:

Log Pow: 1.1 BOD5: 70%

**Bioaccumulation:** Not determined

## 13. DISPOSAL CONSIDERATIONS

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all national and local regulations. Assure conformity with all applicable regulations.

## 14. TRANSPORT INFORMATION

The preparation is not classified as dangerous

**Proper shipping name:** NA

**Hazard class:** Not regulated

**Packing group:** NA

**Identification number:** NA

## 15. REGULATORY INFORMATION

Risk Phrase



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R20/22 Harmful by inhalation and if swallowed  
R41 Risk of serious damage to eyes  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

### Safety Phrase

S23 Do not breathe gas/fumes/vapor/spray  
S25 Avoid contact with eyes  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S29 Do not empty into drains.  
S36 Wear suitable protective clothing  
S39 Wear eye/face protection  
S61 Avoid release to the environment. Refer to special instruction/ Material safety data sheets

### Inventory Status

Inventory	Status
Europe	one or more ingredients are listed on EINECS
United States	one or more ingredients are on TSCA
Canada	one or more ingredients are on DSL
Australia	one or more ingredients are on AICS

## 16. OTHER INFORMATION

### Risk phrases in section 2:

R20 Harmful by inhalation  
R22 Harmful if swallowed  
R36 Irritating to the eyes  
R41 Risk of serious damage to eyes  
R50 Very toxic to aquatic organisms.  
R53 May cause long-term adverse effects in aquatic environment.

**Issue Date:** July.01, 2008

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\* \* \* END OF MSDS \* \* \*