



**Material  
Safety Data Sheet**

**Ball-pen ink 328 black**

**MATERIAL SAFETY DATA SHEET**

**This MSDS Service is provided by**

**Remarks:**

This information and these recommendations are offered in good faith and believed to be correct as of the date hereof. Information and recommendations are supplied upon the condition that the recipients will make their own decision as to safety and suitability for their purposes. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, is made with respect to the product or the information and recommendations. We make no representation as to completeness or accuracy. In no event we shall be responsible for damages of any nature whatsoever resulting from the use or reliance upon the information and recommendations.



*Caixia Shao*

**Approval by: CAIXIA SHAO**

**Date: 10/10/2007**



## Material Safety Data Sheet

Ball-pen ink 328 black

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ball-pen ink 328 black

#### Supplier Information

Company Name:

Address:

Tel:

Fax:

Email:

Emergency Telephone:

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation: Preparation

Ingredients Name	Content/%	CAS NO.	RISK PHRASES
Basic Brilliant Blue B	0-15	2580-56-5	-
Methyl Violet 5BN	0-15	548-62-9	R22 R41 R50-53
Cationic Yellow X-8GL	0-15	12217-50-4	-
Benzyl alcohol	34	100-51-6	R20/22
Ethylene glycol monophenyl ether	13	122-99-6	R22 R36
Epoxy resin	12	61788-97-4	-
Alkyd resin	5	68459-31-4	-
Triethanolamine oleate	3	102-71-6	R36
Polyvinylpyrrolidone (PVP)	1	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



## Material Safety Data Sheet

Ball-pen ink 328 black

### 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



## Material Safety Data Sheet

Ball-pen ink 328 black

### 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.



## Material Safety Data Sheet

Ball-pen ink 328 black

**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



## Material Safety Data Sheet

Ball-pen ink 328 black

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:

Benzyl alcohol          CAS# 100-51-6:

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

Triethanolamine oleate                      CAS# 102-71-6:

Other information:



## Material Safety Data Sheet

Ball-pen ink 328 black

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

R20/22 Harmful by inhalation and if swallowed

R41 Risk of serious damage to eyes



## Material Safety Data Sheet

Ball-pen ink 328 black

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

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects

Issue Date: Oct.10, 2007

This information and these recommendations are offered in good faith and believed to be correct as of the date hereof. Information and recommendations are supplied upon the condition that the recipients will make their own decision as to safety and suitability for their purposes. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, are made with respect to the product or the information and recommendations. We make no representation as to completeness or accuracy. In no event we shall be responsible for damages of any nature whatsoever resulting from the use or reliance upon the information and recommendations.

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