

Centre Testing International

S D S

Report Number : SZR 090813 6184 1007

Applicant : Suzhou xiongying ink technology Co., Ltd

**Address : Wujiang Economic Development Zone, Yunli Road,
NO.539**

Sample Name : Ballpen inks (Black)

Compiled by : *Rain Wan*

Inspected by : *Kathy Ren*

Approved by : *Rebecca Lu*

Issue date : Aug. 26, 2009



Safety Data Sheet (SDS)

According to ISO 10114-1:1994

Printing date 26.08.2009

Revision date 26.08.2009

1 Identification of the substance/preparation and of the company/undertaking

· **Product details**

- **Product name:** Ballpen inks (Black)
- **Product type/code:** None
- **File Number:** SZR 090813 6184 1007
- **Application of the substance / the preparation:** Ballpen inks

· **Manufacturer/Supplier:**

SUZHOU XIONGYING INK TECHNOLOGY CO., Ltd

ADD: Wujiang Economic Development Zone, Yunli Road, NO.539

Tel: 86-512-63320778

Fax: 86-512-63320778

Postcode: 215217

Mail: zhangshenghong001@126.com

· **Further information obtainable from:**

Quality Assurance Department

zhangshenghong001@126.com

- **Emergency Phone:** 86-512-63331385




2 Composition/information on ingredients

· **Description:**

Mixture: consisting of the following components.

Ingredient	CAS No.	EC No.	Concentration%
Epoxy resin	24969-06-0	--	18%
Propane-1,2-diol	57-55-6	200-338-0	20%
2-phenoxy Ethanol	122-99-6	204-589-7	9%
Benzyl alcohol	100-51-6	202-859-9	15%
Metlyl Violet 5BN (Basic Violet)	548-62-9	208-953-6	7%
BX	147-14-8	205-685-1	6%
Solvent black	65113-55-5	265-449-9	15%
Basic Brilliant Blue B	2580-56-5	219-943-6	8%
Triethanolamine(2,2',2''-nitrilotriethanol)	102-71-6	203-049-8	2%

· **Dangerous components:**

CAS: 100-51-6 EINECS: 202-859-9	Benzyl alcohol Warning:  3.1.O/4, 3.1.I/4	15,0%
CAS: 122-99-6 EINECS: 204-589-7	2-Phenoxyethanol Warning:  3.1.O/4, 3.3/2	9,0%
CAS: 2580-56-5 EINECS: 219-943-6	Basic Brilliant Blue B Warning:  3.1.O/4	8,0%

(Contd. on page 2)

Safety Data Sheet (SDS)

According to ISO 10114-1:1994

Printing date 26.08.2009

Revision date 26.08.2009


Product name: Ballpen inks (Black)

(Contd. of page 1)

 CAS: 548-62-9
 EINECS: 208-953-6

C.I. Basic Violet 3

5,0%

 Danger:  3.3/1

 Warning:  3.6/2;  4.1.C/1;  3.1.O/4

3 Hazards identification

· GHS label elements:


Warning

H351 - Suspected of causing cancer.


Warning

H302 - Harmful if swallowed.

H319 - Causes serious eye irritation.

H317 - May cause an allergic skin reaction.



H411 - Toxic to aquatic life with long lasting effects.

· Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P281 Use personal protective equipment as required.

· Response:

 P301+P312 **IF SWALLOWED:** Call a POISON CENTER or doctor/physician if you feel unwell.

 P302+P352 **IF ON SKIN:** Wash with plenty of soap and water.

 P305+P351+P338 **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

 P308+P313 **IF exposed or concerned:** Get medical advice/attention.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

 P333+P313 **If skin irritation or rash occurs:** Get medical advice/attention.

 P337+P313 **If eye irritation persists:** Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

(Contd. on page 3)

Safety Data Sheet (SDS)

According to ISO 10114-1:1994

Printing date 26.08.2009

Revision date 26.08.2009

Product name: Ballpen inks (Black)

(Contd. of page 2)

- **Storage:**
P405 Store locked up.
- **Disposal:**
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

4 First aid measures

- **General information:**
May cause skin irritation. If contact with eyes by accident, it may cause serious eye irritation. Toxic to aquatic life with long lasting effects. If swallowed by accident, please consult the doctor.
- **After inhalation:**
Not expected to become a significant inhalation hazard under normal conditions of use.
In case of accident by inhalation, supply fresh air and to be sure call for a doctor.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Induce vomiting and call for medical help.
- **Information for doctor:** Advice to take the measures according to present symptom.

5 Fire-fighting measures

- **Suitable extinguishing agents:** CO₂, foam, powder or water spray.
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Carbon monoxide (CO)
Carbon dioxide
Other irritating and toxic gases.
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear suitable protective clothing and eye/face protection.

6 Accidental release measures

- **Person-related safety precautions:**
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Pick up mechanically.
Dispose contaminated material as waste according to item 13.

(Contd. on page 4)

Safety Data Sheet (SDS)

According to ISO 10114-1:1994

Printing date 26.08.2009

Revision date 26.08.2009

Product name: Ballpen inks (Black)

(Contd. of page 3)

Ensure adequate ventilation.

Additional information:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling:

Information for safe handling:

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

Restrict the quantity stored at the work place.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

The product is not explosive.

Storage:

Requirements to be met by storerooms and receptacles:

Keep away from heat.

Store in a cool, dry, well-ventilated area away from incompatible substances.

Information about storage in one common storage facility:

Do not store together with strong acids , strong bases , strong oxidants and base metals.

Further information about storage conditions:

Keep container tightly sealed.

Protect from contamination.

8 Exposure controls/personal protection

Information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

57-55-6 propane-1,2-diol

WEEL (USA)	10 mg/m ³
------------	----------------------

100-51-6 Benzyl alcohol

WEEL (USA)	44 mg/m ³ , 10 ppm
------------	-------------------------------

102-71-6 2,2',2''-nitrioltriethanol

TLV (USA)	5 mg/m ³
-----------	---------------------

Additional information: The lists valid during the making were used as basis.

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

(Contd. on page 5)

Safety Data Sheet (SDS)

According to ISO 10114-1:1994

Printing date 26.08.2009

Revision date 26.08.2009

Product name: Ballpen inks (Black)

(Contd. of page 4)

Avoid contact with the eyes and skin.

- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **General Information**

Form:	Fluid
Colour:	Black
Odour:	Characteristic

- **Change in condition**

Melting point/Melting range: Not applicable.
Boiling point/Boiling range: 260°C

- **Flash point:** >55°C

- **Self-igniting:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

Lower:	Not applicable.
Upper:	Not applicable.

(Contd. on page 6)

Safety Data Sheet (SDS)

According to ISO 10114-1:1994

Printing date 26.08.2009

Revision date 26.08.2009

Product name: Ballpen inks (Black)

(Contd. of page 5)

- | | |
|--|-----------------------------------|
| · Density: | Not determined. |
| · Solubility in / Miscibility with water: | Not miscible or difficult to mix. |
| · pH-value at 20°C: | 6,3-6,4 |

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
 No decomposition if used according to specifications.
 To avoid thermal decomposition do not overheat.
 If overheat, this product can release toxic gases. No inhalation!
- **Materials to be avoided:**
 Strong acid.
 Strong bases.
 Strong oxidizing agents.
 Base metals.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:**
 Carbon monoxide
 Other irritating and toxic gases.

11 Toxicological information

- **Acute toxicity:**
 - **LD/LC50 values relevant for classification:**
- | | | |
|-------------------------------------|------|---------------------|
| 100-51-6 Benzyl alcohol | | |
| Oral | LD50 | 1230 mg/kg (rat) |
| Dermal | LD50 | 2000 mg/kg (rabbit) |
| 548-62-9 C.I. Basic Violet 3 | | |
| Oral | LD50 | 420 mg/kg (rat) |
- **Primary irritant effect:**
 - **on the skin:** May cause skin irritation.
 - **on the eye:** Irritating effect.
 - **Sensitization:** No sensitizing effects known.

12 Ecological information

- **Ecotoxicological effects:**
- **Acquatic toxicity:** Toxic to aquatic life with long lasting effects.
- **Remark:** Toxic for fish

(Contd. on page 7)

Safety Data Sheet (SDS)

According to ISO 10114-1:1994

Printing date 26.08.2009

Revision date 26.08.2009

Product name: Ballpen inks (Black)

(Contd. of page 6)

· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
 Do not allow product to reach ground water, water course or sewage system.
 Danger to drinking water if even small quantities leak into the ground.
 Also poisonous for fish and plankton in water bodies.
 Toxic for aquatic organisms

13 Disposal considerations

· **Product:**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

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

14 Transport information

· **Land transport ADR/RID (cross-border)**



· **ADR/RID class:** 6.1 (T1) Toxic substances.

· **Danger code (Kemler):** 60

· **UN-Number:** 2810

· **Hazard label:** 6.1

· **Description of goods:** 2810 TOXIC LIQUID, ORGANIC, N.O.S. (2-Phenoxyethanol, Basic Brilliant Blue B)

· **Maritime transport IMDG:**



· **IMDG Class:** 6.1

· **UN Number:** 2810

· **Label:** 6.1

· **Packaging group:** III

· **EMS Number:** F-A,S-A

· **Marine pollutant:** Yes
 Symbol (fish and tree)

(Contd. on page 8)

Safety Data Sheet (SDS)

According to ISO 10114-1:1994

Printing date 26.08.2009

Revision date 26.08.2009

Product name: Ballpen inks (Black)

(Contd. of page 7)

· **Proper shipping name:** TOXIC LIQUID, ORGANIC, N.O.S. (2-Phenoxyethanol, Basic Brilliant Blue B)

· **Air transport ICAO-TI and IATA-DGR:**



· **ICAO/IATA Class:** 6.1

· **UN/ID Number:** 2810

· **Label:** 6.1

· **Packaging group:** III

· **Proper shipping name:** TOXIC LIQUID, ORGANIC, N.O.S. (2-Phenoxyethanol, Basic Brilliant Blue B)

· **UN "Model Regulation":** UN2810, TOXIC LIQUID, ORGANIC, N.O.S., 6.1, III

· **Environmental hazards:** Product contains environmentally hazardous substances: C.I. Basic Violet 3

15 Regulatory information

· **International regulations/Ordinances:**

· **Information about limitation of use:** Environmental and health restrictions must be observed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The information of section 3 and section 9 is provided by:

SUZHOU XIONGYING INK TECHNOLOGY CO., Ltd

· **Department issuing SDS:** Centre Testing International

· **Contact us:** REACH@cti-cert.com

· **Date issuing SDS:** Aug. 26, 2009

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

End of File

1. This file is considered invalidated without the Special Seal for Inspection of CTI.
2. This file shall not be altered, increased or deleted.
3. Without written approval of CTI, this file shall not be copied partly or published as advertisement.
4. The file and the data must not be used in legal affairs, according to the agreement with CTI and the Applicant.