1: Product and Manufacturer Identification

Product Name: Ball pen ink black
Product Code / Other Names: Pen
Material Uses: Writing
Manufacturer Name: Beifa Group Co., Ltd
Street Address: NO.298 Jangnan Road (east)
City, State, Province: Beilun, Ningbo, Zhejiang Province.
Country & Post Code: China

Emergency Contacts: 86-574-5678-6533

2: Hazard(s) Identification

Physical State: Liquid
Odor: N/A
WHMIS Status (Canada): N/A
OCHA/HCS Status (USA): N/A

Hazard Statements or Symbols: Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects

Emergency Overview: N/A
Possible Routes of Entry: N/A

Potential Acute Health Effects
Inhalation: acute toxicity-oral
Ingestion: Harmful if swallowed
Skin Contact: skin irritation, an allergic skin reaction
Eye Contact: cause serious eye damage / eye irritation

Potential Chronic Health Effects
Chronic Effects: N/A
Carcinogenicity: N/A
Mutagenicity: N/A
Teratogenicity: N/A
Developmental Effects: N/A
Fertility Effects: N/A

Medical conditions aggravated by: N/A

Additional hazards not otherwise specified: N/A

3: Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name or Description</th>
<th>CAS Number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>solvent black 46</td>
<td>65113-55-5</td>
<td>30%</td>
</tr>
<tr>
<td>Benzyl alcohol</td>
<td>100-51-6</td>
<td>25%</td>
</tr>
<tr>
<td>2-Phenoxy Ethanol</td>
<td>122-99-6</td>
<td>20%</td>
</tr>
<tr>
<td>Keton resin</td>
<td>25054-06-2</td>
<td>14%</td>
</tr>
<tr>
<td>Epoxy resin</td>
<td>24969-06-0</td>
<td>6%</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>102-71-6</td>
<td>4%</td>
</tr>
<tr>
<td>Phosphoric acid ester</td>
<td>90506-69-7</td>
<td>1%</td>
</tr>
</tbody>
</table>

Additional Composition Details:

4: First-aid Measures

Eye Contact: Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

Skin Contact: Wash thoroughly with soap and water.

Inhalation: If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention. If not breathing, give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask, etc). If breathing is difficult, oxygen should be administered by qualified personnel.

Ingestion: Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Protection for First-aid Providers: N/A
Notes to Physician: Treat symptoms
SAFETY DATA SHEET (SDS)

Ball pen ink black

5: Fire-fighting Measures

Flammability of the Product: This product is non-flammable.

Extinguishing Media/Methods

Suitable: Water, dry extinguishing media, carbon dioxide, alcohol resistant foams

Not Suitable: Direct water stream.

Special Exposure Hazards: N/A

Products of Combustion: None Special hazards caused by the substance.

Special Protective Equipment Needed for Fire-fighters: In the event of fire, wear self-contained breathing apparatus.

Special Remarks on Explosion Hazards: N/A

6: Accidental Release Measures

Personal Precautions: Ensure good ventilation/exhaustion at the workplace.

Protective Equipment: Wear protective clothing

Environmental Precautions: Contain contaminated water/firefighting water. Do not discharge into drains/surface waters.

Cleaning / Containing

Small Spill: Pick up with suitable absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dispose of absorbed material in accordance with regulations.

Large Spill: Pump off product.

7: Handling and Storage

Safe Handling Precautions: Prevent contact with air/oxygen (formation of peroxide). General Handling: Do not swallow. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

Safe Storage Precautions: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8: Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>Ingredient Name/Description</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethanolamine</td>
<td>5mg/m3</td>
</tr>
</tbody>
</table>

Recommended Monitoring Procedures: No further data

Engineering Measures: N/A

Hygiene Measures: N/A

Personal Protection

Respiratory: Wear appropriate protective mask.

Hands: Wear gloves

Eyes: Safety glasses with side shields. Chemical goggles.

Skin: Wear chemical protective gloves, e.g. PVC.

Environmental Exposure: N/A

9: Physical and Chemical Properties

Physical State: Liquid

Flash Point (°C and °F): 126 °C (CAS#122-99-6)

Auto-ignition Temperature (°C and °F): 475 °C (CAS#122-99-6)

Flammable Limits: N/A

Color: Black

Odor: N/A

Odor Threshold: N/A

pH: N/A

Boiling/Condensing Point (°C and °F): 244.3 °C (CAS#122-99-6)

Melting/Freezing Point (°C and °F): 11.8 °C (CAS#122-99-6)

Relative Density: 1.11 (20 °C) (CAS#122-99-6)

Vapor Pressure: 0.014 hPa (20 °C) (CAS#122-99-6)

Vapor Density: N/A

Volatility: N/A

Evaporation Rate: Not determined

Viscosity: 19 mPa s (dynamic)(40.5 °C) (CAS#122-99-6)

Pour Point (°C and °F): Not determined

Solubility: 24.2 g/L (20.7 °C pH=5.5) (CAS#122-99-6)

10: Stability and Reactivity

Chemical Stability: Material is stable under normal conditions.
SAFETY DATA SHEET (SDS)
Ball pen ink black

Hazardous Polymerization: Not dangerous
Hazardous Decomposition Products: N/A

11: Toxicological Information

Acute Toxicity

<table>
<thead>
<tr>
<th>Product/Ingredient Name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxy Ethanol (CAS#122-99-6)</td>
<td>LD50(Oral, Rat)</td>
<td></td>
<td>1850 mg/kg bw</td>
<td>Not available</td>
</tr>
<tr>
<td></td>
<td>LD50(Dermal, Rabbit)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LC50(Inhalation, Rat)</td>
<td></td>
<td>&gt; 1000 mg/m³ air</td>
<td></td>
</tr>
<tr>
<td>Benzyl alcohol (CAS#100-51-6)</td>
<td>LD50(Oral, Rat)</td>
<td></td>
<td>1620 mg/kg bw</td>
<td>Not available</td>
</tr>
<tr>
<td></td>
<td>LD50(Dermal, Rabbit)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LC50(Inhalation, Rat)</td>
<td></td>
<td>&gt; 4178 mg/m³ air 4h&gt;</td>
<td></td>
</tr>
<tr>
<td>Solvent black46 (CAS#65113-55-5)</td>
<td>LD50(Oral, Rat)</td>
<td></td>
<td>&gt; 2000 mg/kg bw</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50(Dermal, Rabbit)</td>
<td></td>
<td>&gt; 2000 mg/kg bw</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LC50(Inhalation, Rat)</td>
<td></td>
<td>Not available</td>
<td></td>
</tr>
</tbody>
</table>

Chronic Toxicity

Conclusion/Summary: Not dangerous

Irritation/Corrosion

Conclusion/Summary: Causes skin irritation. Causes serious eye damage

Sensitizer

Conclusion/Summary: May cause an allergic skin reaction.

Carcinogenicity

Conclusion/Summary: No

Classification

<table>
<thead>
<tr>
<th>Product/Ingredient Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>EPA</th>
<th>NIOSH</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mutagenicity</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Teratogenicity</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

12: Ecological Information*

Environmental Effects

Aquatic Ecotoxicity

Conclusion/Summary: Hazardous for water

Biodegradability

Conclusion/Summary: No further relevant information available

Other Adverse Effects

Conclusion/Summary: No further relevant information available

13: Disposal Considerations*

Waste Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations

Additional References/Details: No further relevant information available

14: Transport Information*

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>UN #</th>
<th>Proper Shipping Name</th>
<th>Classes</th>
<th>PG</th>
<th>Label</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDG Classification</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>DOT Classification</td>
<td>3082</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S(Solvent black46)</td>
<td>9</td>
<td>III</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Special Precautions: 

15: Regulatory Information*

United States

HCS Classification: All of the ingredient are listed

Canada

WHMIS Classification: All of the ingredient are listed

International Regulations

Canada Inventory: N/A
### SAFETY DATA SHEET (SDS)

**Ball pen ink black**

<table>
<thead>
<tr>
<th>United States Inventory (TSCA)</th>
<th>All of the ingredient are listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe Inventory</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Additional Regulatory Statements</strong></td>
<td>N/A</td>
</tr>
</tbody>
</table>

#### 16: Other Information

| Hazardous Material Information System (United States) | Health: 2  Flammability: 1  Physical hazard: 0 |
| National Fire Protection Association | Health: 2  Flammability: 1  Instability: 0 |
| Additional References | N/A |
| Date of Original Issue | 19th Jan. 2015 |
| Date of Current Revision | 23th Mar. 2015 |
| Name of Responsible Party | Beifa |
| Contact for Copies of SDS | N/A |
| Additional Comments/Notices | N/A |