Safety Data Sheet

Date of issue: 2013-06-12
Revision Date: 2014-09-29

1. Identification of the mixture and of the company
   Product name: Ink for Clip RT stylus pen (Black)
   Company: ZEBRA CO., LTD.
   2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN
   TEL: +81-3-3268-1193
   FAX: +81-3-3268-1197
   Emergency telephone: +81-3-3268-1193
   This phone number is available only during office hours: 9 a.m. to half past 5 p.m. (Japan time)
   Product use: Infill Ink for writing implement

2. Hazards identification
   GHS classification
   Physical hazards
   Flammable liquids: Not classified
   Pyrophoric liquids: Not classified
   Self-heating mixtures: Not classified
   Corrosive to metals: Not classified
   Health hazards
   Acute toxicity–Oral: Category 4
   Acute toxicity–Dermal: Not classified
   Acute toxicity–Inhalation: vapour: Classification not possible
   Acute toxicity–Inhalation: mist: Classification not possible
   Skin corrosion / irritation: Category 2
   Serious eye damage / eye irritation: Category 2
   Respiratory or skin sensitization: Classification not possible / Not classified
   Germ cell mutagenicity: Classification not possible
   Carcinogenicity: Classification not possible
   Reproductive toxicity: Classification not possible
   Specific target organ toxicity (Singel exposure): Classification not possible
   Specific target organ toxicity (Repeated exposure): Classification not possible
   Aspiration hazard: Classification not possible

GHS label elements
   Pictograms or Symbol
   Exclamation mark
   Signal Word
   Warning
Ink for Clip RT stylus pen (Black)

Hazard statement
- Harmful if swallowed
- Causes skin irritation
- Causes serious eye irritation
- Toxic to aquatic life
- Toxic to aquatic life with long lasting effects

Precautionary Statements
Prevention
- Read label and Material Safety Data Sheet before use.
- Do not eat, drink or smoke when using this product
- Wear protective gloves/eye protection.
- Wash hand thoroughly after handling
- Avoid release to the environment

Response
- IF SWALLOWED: Rinse mouth. Call a doctor/physician if you feel unwell
- IF ON SKIN: Wash with soap and water
- If skin irritation occurs: Get medical advice/attention
- IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
- If eye irritation persists : Get medical advice/attention
- Take off contaminated clothing and wash before reuse
- Collect spillage

Storage
- Store in a well ventilated place. Keep cool and container tightly closed.

Disposal
- Dispose of contents/container to in accordance with local government regulation.

3. Composition/information on ingredients
Mixture
Component and Amount

<table>
<thead>
<tr>
<th>Component</th>
<th>Amount</th>
<th>CAS No.</th>
<th>Reference Number in Gazetted List in Japan (Japanese Chemical Substances Control Act)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dyes</td>
<td>15–35%</td>
<td>Nondisclosure</td>
<td>Nondisclosure(registered)</td>
</tr>
<tr>
<td>Resins</td>
<td>15–30%</td>
<td>Nondisclosure</td>
<td>Nondisclosure(registered)</td>
</tr>
<tr>
<td>Ethyleneglycol</td>
<td>30–40%</td>
<td>122–99–6</td>
<td>(9)–1277</td>
</tr>
<tr>
<td>monophenyleth</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benzyl alchol</td>
<td>5–15%</td>
<td>100–51–6</td>
<td>(3)–1011</td>
</tr>
<tr>
<td>Additives</td>
<td>1–15%</td>
<td>Nondisclosure</td>
<td>Nondisclosure(registered)</td>
</tr>
</tbody>
</table>

4. First-aid measures

After inhalation:
Call a doctor/physician if you feel unwell.
Remove victim to fresh air and keep at rest in a position comfortable for breathing.

After skin contact:
- Wash with soap and water
- If skin irritation occurs: Get medical advice/attention
- Take off contaminated clothing and wash before reuse
- Call a doctor/physician if you feel unwell.
After eye contact:
- Rinse continuously with water for several minutes.
- Remove contact lenses if present and easy to do – continue rinsing
- If eye irritation persists : Get medical advice/attention

After ingestion:
- Rinse mouth and call a doctor/physician if you feel unwell.

Protection of the person who takes first aid
- Nothing in particular.

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5. Fire-fighting measures
   Suitable Extinguishing media
   - Carbon dioxide, dry chemical powder, water fog, foam
   Prohibition extinguishing media for safety reason
   - Water spray (straight)

Specific hazards
- May produce toxic fumes if burning.

Specific fire fighting procedures
- If safe to do so, move undamaged containers from the fire area.
- If can’t move the container, cool containers and surrounding with spray water.
- Cool containers with large quantities of water until well after extinguished the fire.

Special protective equipment for fire-fighters
- Fire-fighting should be performed from the windward side.
- Respiratory protection, and other suitable protective equipment

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6. Accidental release measures
   Personal precautions
   - The pollution area should be established as off limits without concerned persons.

Protective equipment and emergency measure
- Do not touch the leakage or its damaged container without suitable protection.
- Do not walk through the leakage.
- Keep sufficient ventilation if the area is indoor.
- Remove ignition sources.

Environmental precautions
- Keep away from drains, and prevent from releasing to the environment.

Methods for cleaning up
- Use non-flammable absorbent materials, and put them in airtight container.
- Dispose of absorbent in accordance with law.

Prevention of secondary disaster
- Remove nearby ignition source and hot surface.
- Equipped with suitable extinguishing media. (Preparation for in case of ignition)

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7. Handling and storage
   Handling
   Technical measures
   - Do suitable equipment measures and use suitable protection that refer to “8. Exposure control/ personal protection”.

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Local exhaust ventilation and general ventilation
Use local exhaust ventilation and general ventilation that refer to “8. Exposure control/ personal protection”.

Caution
When handling do not use high temperature articles, spark and fire.
Handle container with care, do not make it turn over, drop, give impact and drag.
Do not breathe, contact and swallow.
Maintain air concentrations below exposure limit using exhaust ventilation.
Do not eat, drink or smoke when using this product.
Wash hand thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.

Avoid contact
Refer to section 10 about stability and reactivity.

Storage
Incompatible materials
Refer to section 10 about stability and reactivity.

Storage condition
Store away from heat/sparks/open flames – No smoking
Store in a well ventilated place. Keep cool and container tightly closed.
Store locked up.

The Containers
Use the container that our company filled up when ship products

8. Exposure control/ personal protection

Exposure limit values

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Permissible concentration</th>
<th>Administrative levels</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The Japan Society for Occupational Health</td>
<td>ACGIH TLV-TWA</td>
</tr>
<tr>
<td>Ethyleneglycol monophenylether</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Benzyl alchol</td>
<td>Not established</td>
<td>Not established</td>
</tr>
</tbody>
</table>

Put up local exhaust ventilation. Use explosion-proof electrical/ventilating/lighting.
Take precautionary measures against static discharge.
Put up emergency eyewash and shower in case of storage or handling about this product.

Protection

Respiratory protection
Use suitable respiratory protection.

Hand protection
Use suitable protective gloves.

Eye protection
Use suitable eye protection.

Skin/body protection
Use suitable face protection.

Hygiene measures
Do not eat, drink or smoke when using this product.
Wash thoroughly after handling.
9. Physical and chemical properties

- **Appearance**: Black Liquid
- **Odour**: Peculiar odour
- **pH**: No data available
- **Melting point / Coagulating point**: No data available
- **Boiling point**: No data available (reference: ethyleneglycol monophenyl ether 245.2°C)
- **Flash point**: No data available (reference: ethyleneglycol monophenyl ether 127°C)
- **Explosive limit UEL**: No data available
- **Explosive limit LEL**: No data available
- **Vapour pressure**: No data available
- **Vapour density**: No data available
- **Specific gravity**: No data available
- **Water solubility**: No data available
- **Partition coefficient n-octanol/water**: No data available
- **Ignition point**: No data available
- **Decomposition point**: No data available

10. Stability and reactivity

- **Chemical stability**: This product is stable in normal condition.
- **Materials to Avoid**: Strong oxidizing agent
- **Conditions to avoid**: High temperature
- **Incompatible materials**: Strong oxidizing agent
- **Hazardous decomposition products**: Nothing in particular.

11. Toxicological information

- **Acute toxicity-Oral**: Category 4
- **Acute toxicity-Dermal**: Not classified
- **Acute toxicity-Inhalation: vapour**: Classification not possible
- **Acute toxicity-Inhalation: mist**: Classification not possible
- **Skin corrosion / irritation**: Category 2
- **Serious eye damage / eye irritation**: Category 2
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- **Aspiration hazard**: Classification not possible

12. Ecological information

- **Hazardous to the aquatic environment (acute)**: Category 2
- **Hazardous to the aquatic environment (chronic)**: Category 2
- **Degradability**: No data is available
- **Bioaccumulative potential**: No data is available
- **Mobility in soil**: No data is available
13. Disposal considerations

**Waste residues**
- Disposal must be made according to official regulations.
- Avoid release to the environment.

**Contaminated container and packaging**
- Do not flush into the sewer.
- Remove all contents when you dispose of empty containers.

14. Transport information

The contents are as follows when transport only ink

**International regulation**

<table>
<thead>
<tr>
<th></th>
<th>IMDG (maritime transport)</th>
<th>ICAO/IATA (air transport)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN No.</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Class</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Packing Group</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Marine Pollutant</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

**Special precautions**
- Prevent from falling, stumbling and doing damage when the container loading.
- Avoid acute vibration and friction for container.
- If there are some indications of hazard in transporting like acute leak in transporting, take emergency measures and report the accident at once to disaster management agency.
- Avoid transport with foods or feeds.
- Above regulations are applied to transport of writing instruments filled with the ink.

15. Regulatory information

Follow all regulation in your country.

16. Other information

In this sheet, the contents of ingredients and the value of physical and chemical properties are not guaranteed performance.
- The information contained in this sheet is based on the data available at now.
- But this shall not constitute a guarantee for any specific or classification.
- Please be alert to handling this product because chemicals shall have unknown hazards.
- This sheet may be revised when we get new information.
- The information is assumed in the case of large-scale handling on business operations.
- They cannot be always applicable to general use of writing instruments.

**Reference**
- Globally Harmonized System of Classification and Labelling of Chemicals (GHS) second revised edition 2007
- 2009 TLVs and BEIs by ACGIH