

# Safety Data Sheet

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## 1. Identification of the mixture and of the company

Product name : Z-Grip 1.0 Refill(Blue) Ink  
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

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## 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	Not classified / Category 1
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity (Single exposure)	Not classified
Specific target organ toxicity (Repeated exposure)	Not classified
Aspiration hazard	Not classified

#### Environmental hazards

Hazardous to the aquatic environment (acute)	Not classified
Hazardous to the aquatic environment (chronic)	Not classified

### GHS label elements

#### Pictograms or Symbol

Exclamation mark



**Signal Word**

Warning

**Hazard statement**

- Harmful if swallowed
- Causes skin irritation
- May cause an allergic skin reaction
- Causes serious eye irritation

**Precautionary Statements****Prevention**

- Read label and Material Safety Data Sheet before use.
- Avoid breathing dust/vapours
- Do not eat, drink or smoke when using this product
- Contaminated work clothing should not be allowed out of the workplace
- Wear protective gloves/eye protection.
- Wash hand thoroughly after handling
- Avoid release to the environment

**Response**

- IF ON SKIN: Wash with soap and water
- If skin irritation or a rash occurs: Get medical advice/attention
- IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell
- 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 it before reuse.

**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**

Component	Amount	CAS No.	Reference Number in Gazetted List in Japan (Japanese Chemical Substances Control Act)
Dyes	25-30%	Nondisclosure	Nondisclosure(registered)
Resins	15-20%	Nondisclosure	Nondisclosure(registered)
Ethylenglycol monophenyleth	20-25%	122-99-6	(9)-1277
Benzyl alcohol	15-20%	100-51-6	(3)-1011
1,2-propanediol	5-10%	4254-14-2	(2)-234
Triethanolamine	1-5%	102-71-6	(2)-308
Additives	1-5%	Nondisclosure	Nondisclosure(registered)

**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 or a rash occurs: Get medical advice/attention
- Take off contaminated clothing and wash it 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 .Call a POISON CENTER or 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".

**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**

Chemical name	Permissible concentration		Administrative levels
	The Japan Society for Occupational Health	ACGIH TLV-TWA	Ministry of Health, Labour and Welfare(JAPAN)
Ethylenglycol monophenylether	Not established	Not established	Not established
Benzyl alcohol	Not established	Not established	Not established
Triethanolamine	Not established	5mg/m <sup>3</sup> (TWA, 2009)	Not established
1,2-propanediol	Not established	Not established	Not established

**Equipment measures**

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**

<b>Appearance</b>	Blue Liquid
<b>Odour</b>	Peculiar odour
<b>pH</b>	No data available
<b>Melting point / Coagulating point</b>	No data available
<b>Boiling point</b>	No data available (reference : Eethylene glycol monophenyl ether 244.3°C)
<b>Flash point</b>	No data available (reference : Eethylene glycol monophenyl ether 126°C)
<b>Explosive limit UEL</b>	No data available
<b>Explosive limit LEL</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	No data available
<b>Specific gravity</b>	No data available
<b>Water solubility</b>	No data available
<b>Partition coefficient n-octanol/water</b>	No data available
<b>Ignition point</b>	No data available
<b>Decomposition point</b>	No data available

**10. Stability and reactivity**

<b>Chemical stability</b>	This product is stable in normal condition.
<b>Materials to Avoid</b>	Strong oxidizing agent
<b>Conditions to avoid</b>	High temperature
<b>Incompatible materials</b>	Strong oxidizing agent
<b>Hazardous decomposition products</b>	Nothing in particular.

**11. Toxicological information**

<b>Acute toxicity–Oral</b>	Category 4
<b>Acute toxicity–Dermal</b>	Not classified
<b>Acute toxicity–Inhalation : vapour</b>	Classification not possible
<b>Acute toxicity–Inhalation : mist</b>	Classification not possible
<b>Skin corrosion / irritation</b>	Category 2
<b>Serious eye damage / eye irritation</b>	Category 2
<b>Respiratory or skin sensitization</b>	Not classified / Category 1
<b>Germ cell mutagenicity</b>	Not classified
<b>Carcinogenicity</b>	Not classified
<b>Reproductive toxicity</b>	Not classified
<b>Specific target organ toxicity(Singel exposure)</b>	Not classified
<b>Specific target organ toxicity(Repeated exposure)</b>	Not classified
<b>Aspiration hazard</b>	Not classified

## 12. Ecological information

Hazardous to the aquatic environment(acute)	Not classified
Hazardous to the aquatic environment(chronic)	Not classified
Degradability	No data is available
Bioaccumulative potential	No data is available
Mobility in soil	No data is available

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## 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.

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## 14. Transport information

The contents are as follows when transport only ink

### International regulation

#### IMDG(maritime transport)

UN No.	Not applicable
Class	—
Packing Group	—
Marine Pollutant	—

#### ICAO/IATA (air transport)

UN No.	Not applicable
Class	—
Packing Group	—

### 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.

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## 15. Regulatory information

Follow all regulation in your country.

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## 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  
Recommendation of Occupational Exposure Limits(2009-2010) by The Japan Society for Occupational Health  
2009 TLVs and BEIs by ACGIH