

# Safety Data Sheet

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

Product name : Ink for JLV 0.7 Forest

Company : ZEBRA CO., LTD.  
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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	Not classified
Acute toxicity-Dermal	Not classified
Acute toxicity-Inhalation: vapour	Classification not possible
Acute toxicity-Inhalation: mist	Classification not possible
Skin corrosion / irritation	Not classified
Serious eye damage / eye irritation	Not classified
Respiratory or skin sensitization	Classification not possible / Not classified
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  
No pictogram

#### Signal Word

No signal word

**Hazard statement**

No hazard statement

**Precautionary Statements****Prevention**

- Read label and Material Safety Data Sheet before use.
- Wear protective gloves/eye protection.
- Wash hand thoroughly after handling
- Avoid release to the environment

**Response**

- Nothing in particular

**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	1-5%	Nondisclosure	Nondisclosure(registered)
Resins	1-5%	Nondisclosure	Nondisclosure(registered)
Water	75-80%	7732-18-5	—
Propylene glycol	10-15%	57-55-6	(2)-234
Additives	1-5%	Nondisclosure	Nondisclosure(registered)
Triethanolamine	0-1%	102-71-6	(2)-308

**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:**

Call a doctor/physician if you feel unwell.

If skin irritation occurs: Get medical advice/attention

**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:**

Call a doctor/physician if you feel unwell.

**Protection of the person who takes first aid**

Nothing in particular.

**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**

This product is not combustible. But evaporated residue is combustible.  
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.

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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)
Triethanolamine	Not established	5mg/m <sup>3</sup> (TWA, 2009)	Not established
Propylene glycol	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**

If necessary use suitable respiratory protection.

**Hand protection**

Use suitable protective gloves.

**Eye protection**

Use suitable eye protection.

**Skin/body protection**

If necessary 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>	Green black 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
<b>Flash point</b>	No data available
<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>	This ink is soluble in water.
<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>	No data available
<b>Conditions to avoid</b>	No data available
<b>Incompatible materials</b>	No data available
<b>Hazardous decomposition products</b>	No data available

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**11. Toxicological information**

<b>Acute toxicity-Oral</b>	Not classified
<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>	Not classified
<b>Serious eye damage / eye irritation</b>	Not classified
<b>Respiratory or skin sensitization</b>	Classification not possible / Not classified
<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

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**12. Ecological information**

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

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**13. Disposal considerations**

<b>Waste residues</b>	Disposal must be made according to official regulations. Avoid release to the environment.
<b>Contaminated container and packaging</b>	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	-

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**ICAO/IATA (air transport)**

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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(Japan)****Industrial Safety and Health Act****Article 57-2 paragraph (1) "notifiable substances"**

Applicable

Triethanolamine

Ethylene glycol

**Order for Enforcement Article 1, 6, 9-3 Appended Table 1 item(IV)****dangerous substances ·inflammable substances**

Not applicable

**Poisonous and Deleterious Substances Control Law****Article 2 Appended Table 1 and 2**

Not applicable

**Act on confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management There of****Article 2 Class I , II Designated Chemical Substances**

Not applicable

**Fire Service Law****Article 2 paragraph (7) hazardous material Appended Table 1**

Not applicable

**Ship Safety Act****Regulations for the carriage and storage of dangerous goods in ship Article 2, 3****dangerous goods public notice Appended Table 1**

Not applicable

**Civil Aviation Law****Ordinance for Enforcement Article 194 dangerous goods public notice Appended Table 1**

Not applicable

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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