Safety Data Sheet

Date of issue: 2012-12-13 Revision Date: 2014-11-18

1. Identification of the mixture and of the company

Product name	: Ink for JLV 0.7 Red
	Ink for JLV 0.5 Red
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 bazards

ŀ	'hysical hazards	
	Flammable liquids	Not classified
	Pyrophoric liquids	Not classified
	Self-heating mixtures	Not classified
	Corrosive to metals	Not classified
H	lealth 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	Category 2
	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 (Singel exposure)	Category 2 (respiratory organs, nerve center, heart, kindney)
	Specific target organ toxicity(Repeated exposure)	Category 2 (respiratory organs, nerve center, heart)
	Aspiration hazard	Not classified

GHS label elements

Pictograms or Symbol

Exclamation mark Health Hazard



Signal Word Warning

Hazard statement

- •Causes serious eye irritation
- •May cause damage to organs (respiratory organs, nerve center, heart, kindney)
- •May cause damage to organs (respiratory organs, nerve center, heart) through prolonged or repeated exposure

Precautionary Statements

Prevention

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

Response

- ·IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician
- ·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
- •Get Medical advice/attention if you feel unwell

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

			Reference Number in Gazetted List in Japan
Component	Amount	CAS No.	(Japanese Chemical Substances Control Act)
Dyes	5-10%	Nondisclosure	Nondisclosure(registered)
Resins	1-5%	Nondisclosure	Nondisclosure(registered)
Water	70-75%	7732-18-5	—
Propylene glycol	5-10%	57-55-6	(2)-234
Ethylene glycol	5-10%	107-21-1	(2)-230
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:

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

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.

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 throughly after handling.

Use only outdoors or in awell-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

	Permissible concentration		Administrative levels
	The Japan Society for Occupational Health		Ministry of Health, Labour and Welfare(JAPAN)
Propylene glycol	Not established	Not established	Not established
Ethylene glycol	Not established	100mg/m3(aerosol, TLV-C(STEL), 2009)	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

Appearance	Red Liquid
Odour	Peculiar odour
рH	No data available
Melting point / Coagulating point	No data available
Boiling point	No data available
Flash point	No data available

- **Explosive limit UEL** No data available **Explosive limit LEL** No data available Vapour pressure No data available Vapour density No data available No data available Specific gravity Water solubility Partition coefficient n-octanol/water No data available Ignition point No data available **Decomposition point**
 - This ink is soluble in water. No data available
- 10. Stability and reactivity Chemical stability Materials to Avoid Conditions to avoid Incompatible materials Hazardous decomposition products

This product is stable in normal condition. No data available No data available No data available No data available

11. Toxicological information

Acute toxicity-Oral	Not classified
Acute toxicity-Dermal	Not classified
Acute toxicity-Inhalation:vapour	Classification not possible
Acute toxicity-Inhalation:mist	Classification not possible
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12. Ecological information

Hazardous to the aquatic environment(acute) Not classified Hazardous to the aquatic environment(chronic) Not classified No data is available Degradability **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

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.

15. Regulatory information(Japan)

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