Safety Data Sheet

Date of issue：2020-10-27
Revision Date：2026-02-18

1. Identification of the mixture and of the company

Product name： Ink for JLV 0.7 Black
Sarasa Retractable (BK ink)

・Impoter ：ZEBRA PEN EU KFT.
H-1039 Budapest, Pünkösdfürdő u. 52.HUNGARY
TEL ：+36-1-630-91-73
・Manufacture ：ZEBRA CO., LTD.
2-9 Higashigoken-cho, Shinjuku-ku, Tokyo 162-8562 JAPAN
TEL ：+81-3-3268-1191
E-mail：kankyo@zebra.co.jp

1.4 Emergency telephone number:

・Impoter ：+36-1-630-91-73
・Manufacture ：+81-3-3268-1191
This phone number is available only during office hours: 9 a.m. to half past 5 p.m. (Japan time)

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	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 1 (respiratory organs, nerve center, heart)
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 Health Hazard

Signal Word

Danger

Hazard statement

- Causes serious eye irritation
- Causes damage to organs (respiratory organs, nerve center, heart, kindney)
- Causes 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 IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do . Continue rinsing
- IF exposed: Call a POISON CENTER or doctor/physician
- 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

Component	Amount	CAS No.	Reference Number in Gazetted List in Japan (Japanese Chemical Substances Control Act)
Dyes	5–10%	Nondisclosure	Nondisclosure(registered)
Resins	1–5%	Nondisclosure	Nondisclosure(registered)
Water	75–80%	7732-18-5	—
Ethylene glycol	10–15%	107-21-1	(2)-230
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

---

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

Chemical name	Permissible concentration		Administrative levels
	The Japan Society for Occupational Health	ACGIH TLV-TWA	Ministry of Health, Labour and Welfare(JAPAN)
Ethylene glycol	Not established	100mg/m3(aerosol, TLV-C(STEL), 2009)	Not established
Triethanolamine	Not established	5mg/m3 (TWA, 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	Black Liquid
Odour	Peculiar odour
pH	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
Specific gravity	No data available
Water solubility	This ink is soluble in water.
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	No data available
Conditions to avoid	No data available
Incompatible materials	No data available
Hazardous decomposition products	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
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 1 (respiratory organs, nerve center, heart, kindney)
Specific target organ toxicity(Repeated exposure)	Category 1 (respiratory organs, nerve center, heart)
Aspiration hazard	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

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)

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

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