

Safety Data Sheet

Version OSHA-1.2
Date of issue : 2018-08-10
Revision Date: 2019-12-05

1. Identification of the mixture and of the company

1.1- Product identifier

Product name : Ink for Ball point pen refills as follows:

F-0.7(Black) : BR-1B-F-BK
F-1.0(Black) : BRM-1B-F-BK

1.2 - Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/mixture : Ink for writing implement
- Recommended restrictions on use : No information available
- Uses Advised Against : No information available

1.3 - Details of the supplier of the SDS

• Manufacture : ZEBRA CO., LTD.
2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN
TEL : +81-3-3268-1193
FAX : +81-3-3268-1197

1.4 - Emergency telephone number

• Manufacture : +81-3-3268-1193
This phone number is available only during office hours: 9 a.m. to half past 5 p.m.
(Japan time)

2. Hazards identification

Classification of the chemical in accordance with paragraph (d) of § 1910.1200

2.1 Classification of the substance or mixture

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	Not classified

<u>Unknown Acute Oral Toxicity:</u>	2% of the mixture consists of ingredient(s) of unknown acute toxicity.
<u>Unknown Acute Dermal Toxicity:</u>	43% of the mixture consists of ingredient(s) of unknown acute toxicity.
<u>Unknown Acute Inhalation: vapour Toxicity:</u>	84% of the mixture consists of ingredient(s) of unknown acute toxicity.

Skin corrosion / irritation	Category 2
Serious eye damage / eye irritation	Category 1
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)	Category 2 (Gastrointestinal tract, liver, Immune system-oral)
Aspiration hazard	Not classified

Environmental hazards

Hazardous to the aquatic environment (acute)	Category 3
Hazardous to the aquatic environment (chronic)	Category 3

Hazard(s) not otherwise classified (HNOC)

None known.

2.2 Label elements**Pictograms or Symbol**

Corrosion Health Hazard Exclamation mark

**Signal Word**

Danger

Hazard statement

Harmful if swallowed
 Causes skin irritation
 Causes serious eye damage
 May cause damage to organs through prolonged or repeated exposure
 Harmful to aquatic life
 Harmful to aquatic life with long lasting effects

Precautionary Statements**Prevention**

Do not breathe dust/fume/gas/mist/vapours/spray
 Wash hands thoroughly after handling
 Do not eat, drink or smoke when using this product
 Avoid release to the environment
 Wear protective gloves/protective clothing/eye protection/face protection

Response

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 IF ON SKIN: Wash with soap and water
 IF IN EYES: Rinse continuously with water for several minutes.
 Remove contact lenses if present and easy to do . Continue rinsing
 Immediately call a POISON CENTER or doctor/physician
 Get Medical advice/attention if you feel unwell
 Rinse mouth
 If skin irritation occurs: 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**3.1 Substance** : Not applicable**3.2 Mixture****Component and Amount**

Component	Amount	CAS No.
Dyes	25-35%	Trade Secret
Resins	15-25%	Trade Secret
Ethylene glycol monophenyleth	30-35%	122-99-6
Benzyl alcohol	15-20%	100-51-6
Additives	1-5%	Trade Secret

Additional information

The specific chemical identify and exact percentages of composition of the mixture has been withheld as a Trade Secrets in accordance with the provisions of paragraph (i) of § 1910.1200 of 29 CFR1910.1200 .

4. First-aid measures**4.1 Description of First-aid measures**

After inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing
IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell

After skin contact:

Call a POISON CENTER or doctor/physician if you feel unwell
IF ON SKIN: Wash with soap and water
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention

After eye contact:

IF IN EYES: Rinse continuously with water for several minutes.
Remove contact lenses if present and easy to do . Continue rinsing
Immediately call a POISON CENTER or doctor/physician

After ingestion:

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

Protection of the person who takes first aid

Nothing in particular.

4.2 Most important symptoms and effects, both acute and delayed

No significant reaction of the human body to this product known.

4.3 Indication of any immediate medical attention and special treatment needed

There is no specific and immediate treatment, but should consult a doctor.

5. Fire-fighting measures**5.1 Suitable Extinguishing media**

Carbon dioxide, dry chemical powder, water fog, foam

5.2 Special hazards arising from the substance or mixture**Prohibition extinguishing media for safety reason**

Water spray (straight)

5.3 Advice for firefighters**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

6. Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****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.

6.2 Environmental precautions

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

6.3 Methods and materials for containment and cleaning up**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)

6.4 Reference to other sections

Refer to section 8 and 13.

7. Handling and storage

7.1 Precautions for safe 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.

7.2 Conditions for safe storage, including incompatibilities

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

7.3 Specific end uses

Not applicable

8. Exposure control/ personal protection

8.1 Control parameters

Exposure limit values

Chemical name	OSHA Permissible Exposure Limits (PEL)	ACGIH TLV-TWA
Ethylenglycol monophenylether	Not established	Not established
Benzyl alcohol	Not established	Not established

8.2 Exposure controls

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
Odour threshold	No data available
pH	No data available
Evaporation rate	No data available
Flammability	No data available
Melting point / Coagulating point	No data available
Boiling point	No data available (Reference:Ethylenglycol monophenylether 245.2°C)
Flash point	No data available (Reference:Ethylenglycol monophenylether 127°C (Closed Cup test method))
Explosive limit UEL	No data available
Explosive limit LEL	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	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
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available

9.2 Other information

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	Not classified
Skin corrosion / irritation	Category 2
Serious eye damage / eye irritation	Category 1
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)	Not classified
Specific target organ toxicity(Repeated exposure)	Category 2(Gastrointestinal tract,liver,Immune system - oral)
Aspiration hazard	Not classified

12. Ecological information

Hazardous to the aquatic environment(acute)	Category 3
Hazardous to the aquatic environment(chronic)	Category 3
Degradability	No data is available
Bioaccumulative potential	No data is available

Mobility in soil

No data is available

13. Disposal considerations**Waste treatment methods****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**14.1 Un number****14.2 UN proper shipping name****14.3 Transport hazard class(es)****14.4 Packaging group****International regulation****IMDG (Maritime transport)**

UN No.	Not applicable
Class	-
Packing Group	-
Marine Pollutant	-
Shipping name	-

ICAO/IATA (Air transport)

UN No.	Not applicable
Class	-
Packing Group	-
Shipping name	-

ADR/RID (Land transport)

UN No.	Not applicable
Class	-
Packing Group	-
Shipping name	-

14.5 Environmental hazards

Hazardous to the aquatic environment(acute) Category 3

Hazardous to the aquatic environment(chronic) Category 3

14.6 Special precautions for user

Not applicable.

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 not applied to transport of writing instruments filled with the ink.

Follow all regulation in your country.

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.

Revision

2018/8/10 First version

2019/4/26 Ver 1.1, Recertification : 2.2 Label elements

2019/12/5 Ver 1.2, Recertification : 2.2 Label elements, 3. Composition/information on ingredients