Green ink

Not classified

Category 2

Safety Data Sheet

Date of issue: 2010-09-07

Revision Date: -

1. Identification of the mixture and of the company

Product name

: Black, Blue, Red, Green ink for Z-Grip Z-Quad RT BP 4 Color

Company

: ZEBRA CO., LTD.

2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN

TEL: FAX: +81-3-3268-1193 +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.

Black ink

(Japan time)

Product use

: Infill Ink for writing implement

2. Hazards identification

GHS classification

Physical hazards

Flammable liquids Pyrophoric liquids Self-heating mixtures Corrosive to metals

Health hazards

Acute toxicity-Oral Acute toxicity-Dermal

Acute toxicity-Inhalation: vapour Acute toxicity-Inhalation: mist Skin corrosion / irritation

Serious eye damage / eye irritation Respiratory or skin sensitization

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity (Singel exposure)

Specific target organ toxicity(Repeated exposure) Aspiration hazard

Environmental hazards

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

Not classified		
Category 3	Not classified	Category 2

Blue, Red ink

Not classified

Not classified

Not classified

Not classified

Category 4

Not classified

Not classified

Not classified

Not classified / Not classified

Category 2

Category 1

GHS label elements

Pictograms or Symbol

Exclamation mark

Health Hazard





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	¥
	N





Signal Word

Danger

Hazard statement

- Harmful if swallowed
- Causes skin irritation
- *Causes serious eye damage
- · Causes serious eye irritation
- •May damage fertility or the unborn child
- Toxic to aquatic life with long lasting effects
- · Harmful to aquatic life with long lasting effects

Precautionary Statements

Prevention

- Read label and Material Safety Data Sheet before use.
- Obtain special instructions before use
- •Do not handle until all safety precautions have been read and understood
- *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 concerned: Get medical advice/attention
- •IF SWALLOWED: Rinse mouth .Call a POISON CENTER or doctor/physician if you feel unwell
- •IF ON SKIN: Wash with soap and water
- •If skin irritation occurs: Get medical advice/attention
- •IF IN EYES: Immediately call a POISON CENTER or doctor/physician.

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 before reuse
- Collect spillage

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	5-30%	Nondisclosure	Nondisclosure(registered)
Ethylenglycol monophenyleth	20-50%	122-99-6	(9)–1277
Benzyl alchol	5-25%	100-51-6	(3)–1011
Additives	0-10%	Nondisclosure	Nondisclosure(registered)
Other components	0-65%	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 occurs: Get medical advice/attention

Call a doctor/physician if you feel unwell.

Take off contaminated clothing and wash before reuse

After eye contact:

Immediately call a POISON CENTER or doctor/physician.

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.

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

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.

Equipped with suitable extinguishing media. (Preparation for in case of ignition)

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 co		oncentration	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 alchol	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

Appearance

Coloring liquid

Odour

Peculiar odour

Ha

Black, Green ink: 4-6

:6-8

Red. Blue ink

Melting point / Coagulating point

No data available

Boiling point

>180°C

Flash point

>94°C

Explosive limit UEL

No data available

Explosive limit LEL

No data available

Vapour pressure Vapour density

No data available

Specific gravity

No data available

No data available

Water solubility

No data available No data available

Ignition point

>230°C

Decomposition point

No data available

10. Stability and reactivity

Partition coefficient n-octanol/water

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 Nothing in particular.

11. Toxicological information

Hazardous decomposition products

Acute toxicity-Oral

Acute toxicity-Dermal

Acute toxicity-Inhalation:vapour

Acute toxicity-Inhalation: mist

Skin corrosion / irritation

Serious eye damage / eye irritation

Respiratory or skin sensitization

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity(Singel exposure)

Specific target organ toxicity(Repeated exposure)

Aspiration hazard

Black ink	Blue, Red ink	Green ink
	Category 4	
	Not classified	
	Not classified	
	Not classified	
Categ	gory 2	Not classified
Categ	ory 1	Category 2
Not o	classified/Not class	sified
	Not classified	
	Not classified	
Not classified		
	Not classified	
	Not classified	
	Not classified	

12. Ecological information

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

Black ink	Blue, Red ink	Green ink
	Not classified	
Category 3	Not classified	Category 2

Degradability

Bioaccumulative potential

Mobility in soil

No data is available No data is available 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

Black, Blue, Red ink

IMDG (maritime transport)	
UN No.	Not applicable
Class	-
Packing Group	_
Marine Pollutant	-
ICAO/IATA(air transport)	
UN No.	Not applicable
Class	-
Packing Group	-

Green ink

IMDG (maritime transport)	
UN No.	3082
Class	9
Packing Group	Ш
Marine Pollutant	Yes
ICAO/IATA(air transport)	
UN No.	3082
Class	9
Packing Group	Ш

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