

Safety Data Sheet

Date of issue: 2014-11-20

Revision Date: -

1. Identification of the mixture and of the company

Product name : Ink for Zazzle Liquid Highlighter(Orange, Red, Pink, Orchid, Violet, Dark Blue, Light.Blue, Green, Yellow)

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 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	Not classified
Acute toxicity-Inhalation:mist	Not classified
Skin corrosion / irritation	Not classified
Serious eye damage / eye irritation	Category 2
Respiratory or skin sensitization	Not classified / Category 1
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

GHS label elements

Pictograms or Symbol

Exclamation mark



Signal Word

Warning

Hazard statement

- Causes serious eye irritation
- May cause an allergic skin reaction
- Harmful to aquatic life
- May cause long lasting harmful effects to aquatic life

Precautionary Statements**Prevention**

- Read label and Material Safety Data Sheet before use.
- Avoid breathing dust/vapours
- Contaminated work clothing should not be allowed out of the workplace
- Wear protective gloves/eye protection.
- Wash hand thoroughly 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 eye irritation persists : Get medical advice/attention
- IF ON SKIN: Wash with soap and water
- If skin irritation or a rash occurs: Get medical advice/attention
- Wash contaminated clothing 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**Mixture****Component and Amount**

Component	Amount	CAS No.	Reference Number in Gazetted List in Japan (Japanese Chemical Substances Control Act)
Dyes	0-5%	Nondisclosure	Nondisclosure(registered)
Resins	10-15%	Nondisclosure	Nondisclosure(registered)
Water	65-75%	7732-18-5	—
Glycerol	10-15%	56-81-5	(2)-242
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:

- Wash with soap and water
- If skin irritation or a rash occurs: Get medical advice/attention
- Wash contaminated clothing before reuse
- Call a doctor/physician if you feel unwell.

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 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)
Glycerol	Not established	10mg/m3 (mist, 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	Coloring Liquid
Odour	Peculiar odour
pH	6-7

Melting point / Coagulating point	No data available
Boiling point	About 100°C
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	1.0-1.1
Water solubility	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	Not classified
Acute toxicity-Inhalation: mist	Not classified
Skin corrosion / irritation	Not classified
Serious eye damage / eye irritation	Category 2
Respiratory or skin sensitization	Not classified / Category 1
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)	Not classified
Aspiration hazard	Not classified

12. Ecological information

Hazardous to the aquatic environment(acute)	Category 3
Hazardous to the aquatic environment(chronic)	Category 4
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

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

Safety Data Sheet

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Physical hazards

Flammable liquids	Not classified
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Self-heating mixtures	Not classified
Corrosive to metals	Not classified

Health hazards

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Acute toxicity-Dermal	Not classified
Acute toxicity-Inhalation: vapour	Not classified
Acute toxicity-Inhalation: mist	Not classified
Skin corrosion / irritation	Not classified
Serious eye damage / eye irritation	Category 2
Respiratory or skin sensitization	Not classified / Category 1
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Category 1B
Specific target organ toxicity (Single exposure)	Category 1 (Heart, Respiratory organ, Kidney, Central nervous system)
Specific target organ toxicity (Repeated exposure)	Category 1 (Heart, Respiratory organ, Central nervous system)
Aspiration hazard	Not classified

GHS label elements

Pictograms or Symbol

Exclamation mark



Health Hazard



Signal Word

Danger

Hazard statement

- Causes serious eye irritation
- May cause an allergic skin reaction
- May damage fertility or the unborn child
- Causes damage to organs(Heart,Respiratory organ,Kidney,Central nervous system)
- Causes damage to organs through prolonged or repeated exposure (Heart,Respiratory organ,Central nervous system)
- Harmful to aquatic life
- May cause long lasting harmful effects to aquatic life

Precautionary Statements**Prevention**

- Read label and Material Safety Data Sheet before use.
- Do not breathe dust/vapours
- Contaminated work clothing should not be allowed out of the workplace
- 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 thoroughly 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 eye irritation persists : Get medical advice/attention
- IF ON SKIN: Wash with soap and water
- If skin irritation or a rash occurs: Get medical advice/attention
- IF exposed or concerned: Get medical advice/attention
- Wash contaminated clothing 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**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	10-15%	Nondisclosure	Nondisclosure(registered)
Water	60-65%	7732-18-5	—
Glycerol	15-20%	56-81-5	(2)-242
Ethylene glycol	1-5%	107-21-1	(2)-230
Additives	0-1%	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 or a rash occurs: Get medical advice/attention
- Wash contaminated clothing before reuse
- Call a doctor/physician if you feel unwell.

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 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

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Respiratory protection

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Hand protection

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Eye protection

Use suitable eye protection.

Skin/body protection

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Hygiene measures

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pH	6-7
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Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Category 1B
Specific target organ toxicity(Singel exposure)	Category 1 (Heart,Respiratory organ,Kidney,Central nervous system)
Specific target organ toxicity(Repeated exposure)	Category 1 (Heart,Respiratory organ,Central nervous system)
Aspiration hazard	Not classified

12. Ecological information

Hazardous to the aquatic environment(acute)	Category 3
Hazardous to the aquatic environment(chronic)	Category 4

Degradability	No data is available
Bioaccumulative potential	No data is available
Mobility in soil	No data is available

13. Disposal considerations

Waste residues

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

ICAO/IATA(air transport)

UN No.	Not applicable
Class	-
Packing Group	-

Special precautions

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