# Safety Data Sheet

Version OSHA-1.0 Date of issue :2018-07-26

Revision Date:

## 1. Identification of the mixture and of the company

#### 1.1- Product identifier

Product name : Ink for Sarasa Clip 0.5(Black)

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

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

## 1.3 - Details of the suplier 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

Pyrophoric liquids

Self-heating mixtures

Corrosite to metals

Not classified
Not classified
Not classified

## Health hazards

Acute toxicity-Oral Not classified Acute toxicity-Dermal Not classified

Acute toxicity-Inhalation: vapour Classification not possible

Unknown Acute Oral Toxicity: 2.4% of the mixture consists of ingredient(s) of unknown acute toxicity.

Unknown Acute Dermal Toxicity: 34.1% of the mixture consists of ingredient(s) of unknown acute toxicity.

Unknown Acute Inhalation: vapour Toxicity: 64.4% of the mixture consists of ingredient(s) of unknown acute toxicity.

Skin corrosion / irritation Not classified Serious eye damage / eye irritation Category 2

Respiratory or skin sensitization Classification not possible / Category 1

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Not classified
Category 2

Category 1B

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)

- 1 -

Aspiration hazard Classification not possible

## Environmental hazards

Item Numbers: 21074-1129

Hazardous to the aquatic environment(acute) Not classified Hazardous to the aquatic environment(chronic) Not classified

#### Hazard(s) not otherwise classified (HNOC)

None known.

#### 2.2 Label elements

## Pictograms or Symbol

Exclamation mark





#### Signal Word

Danger

# Hazard statement

- · Causes serious eve irritation
- •May cause an allergic skin reaction
- •Suspected of causing cancer
- ·May damage fertility or the unborn child
- •Causes damage to organs (respiratory organs, nerve center, heart, kindney)
- Causes damage to organs through prolonged or repeated exposure (respiratory organ, nerve center, heart)

#### **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 breathe dust/vapours
- •Do not eat, drink or smoke when using this product
- •Contaminated work clothing should not be allowed out of the workplace
- •Wear protective gloves/eye protection.
- ·Wash hand throughly after handling
- Avoid release to the environment

#### Response

- •IF ON SKIN: Wash with soap and water
- •If skin irritation or a rash occurs: Get medical advice/attention
- •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 exposed or concerned: Get medical advice/attention
- •Get Medical advice/attention if you feel unwell
- •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

Amount	CAS No.	
1-5%	Nondisclosure	
0-5%	Nondisclosure	
50-55%	7732-18-5	
25-35%	56-81-5	
10-15%	Nondisclosure	
	1-5% 0-5% 50-55% 25-35%	1-5% Nondisclosure 0-5% Nondisclosure 50-55% 7732-18-5 25-35% 56-81-5

## 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:

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:

IF ON SKIN: Wash with soap and water

If skin irritation or a rash occurs: Get medical advice/attention

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Take off contaminated clothing and wash it before reuse.

#### After eve 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.

#### 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

Therer is no specific and immedate treatment, but should consult a doctor.

#### 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  $% \left( 1\right) =\left( 1\right) +\left( 1\right) =\left( 1\right) +\left( 1\right) +\left( 1\right) =\left( 1\right) +\left( 1$ 

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

# 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 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.

#### 7.2 Conditions for safe storage, including incompatabilities

#### 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 .1 Control parameters

## Exposure limit values

-Apocaro mine values		
Chemical name	OSHA Permissible Exposure Limits (PEL)	ACGIH TLV-TWA
Glycerol	15mg/m3	10mg/m3 (mist, TWA, 2009)

## 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 Slightly smell
Odour threshold No data available

**pH** 8–9

Evaporation rate
No data available
Flammability
No data available
Melting point / Coagulating point
No data available

Boiling point Flash point

**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 Soluble in water. Partition coefficient n-octanol/water No data available Ignition point No data available Decomposition point No data available Viscosity No data available No data available Explosive properties No data available Oxidising properties

Other information No data available

## 10. Stability and reactivity

Chemical stability This product is stable in normal condition.

Materials to AvoidNo data availableConditions to avoidNo data availableIncompatible materialsNo data availableHazardous decomposition productsNo data available

## 11. Toxicological information

Acute toxicity-Oral Not classified
Acute toxicity-Dermal Not classified

Acute toxicity-Inhalation: vapour Classification not possible

Skin corrosion / irritation Not classified Serious eye damage / eye irritation Category 2

Respiratory or skin sensitization Classification not possible / Category 1

 Germ cell mutagenicity
 Not classified

 Carcinogenicity
 Category 2

 Reproductive toxicity
 Category 1B

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 Classification not possible

# 12. Ecological information

Hazardous to the aquatic environment(acute) Not classified Hazardous to the aquatic environment(chronic) Not classified

DegradabilityNo data is availableBioaccumulative potentialNo data is availableMobility in soilNo 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)

DR/ RID(Land transport)	
UN No.	Not applicable
Class	_
Packing Group	_
Shipping name	_

## 14.5 Environmental hazards

Hazardous to the aquatic environment(acute)
Hazardous to the aquatic environment(chronic)
Not classified
Not classified

## 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

2018/7/26 First version

# Safety Data Sheet

Version OSHA-1.0 Date of issue :2019-04-11

Revision Date:

## 1. Identification of the mixture and of the company

#### 1.1- Product identifier

Product name : Ink for Sarasa Clip 0.5(Blue Green)

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

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

## 1.3 - Details of the suplier 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

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(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
Corrosite to metals Not classified

# Health hazards

Acute toxicity-Oral Not classified Acute toxicity-Dermal Not classified

Acute toxicity-Inhalation: vapour Classification not possible

Unknown Acute Oral Toxicity:
Unknown Acute Dermal Toxicity:
Unknown Acute Inhalation: vapour Toxicity:

40% of the mixture consists of ingredient(s) of unknown acute toxicity.

41% of the mixture consists of ingredient(s) of unknown acute toxicity.

68% of the mixture consists of ingredient(s) of unknown acute toxicity.

Skin corrosion / irritation Not classified Serious eye damage / eye irritation Category 2

Respiratory or skin sensitization Classification not possible / Category 1

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity(Singel exposure)

Specific target organ toxicity(Repeated exposure)

Not classified

Not classified

Not classified

Not classified

Aspiration hazard Classification not possible

## Environmental hazards

Hazardous to the aquatic environment(acute) Not classified Hazardous to the aquatic environment(chronic) Not classified

## Hazard(s) not otherwise classified (HNOC)

None known.

#### 2.2 Label elements

## Pictograms or Symbol

Exclamation mark



#### Signal Word

Warning

#### Hazard statement

- •May cause an allergic skin reaction
- · Causes serious eye irritation

#### **Precautionary Statements**

#### Prevention

- Avoid breathing dust/fume/gas/mist/vapours/spray
- ·Wash hands thoroughly after handling
- •Contaminated work clothing should not be allowed out of the workplace
- •Wear protective gloves/protective clothing/eye protection/face protection

#### Response

•IF IN EYES: Rinse continuously with water for several minutes.

Remove contact lenses if present and easy to do . Continue rinsing

- •IF ON SKIN: Wash with soap and water
- •If skin irritation or a rash occurs: Get medical advice/attention
- •If eye irritation persists : 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 and / amount			
Component	Amount	CAS No.	
Pigments	-1%	Trade Secret	-
Resins	15-20%	Trade Secret	
Water	50-55%	7732-18-5	
Glycerol	20-25%	56-81-5	
Additives	5-10%	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:

IF INHALED: Call a POISON CENTER or 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

IF ON SKIN: Wash with soap and water

If skin irritation or a rash occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse.

#### After eye contact:

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

#### After ingestion:

Call a POISON CENTER or doctor/physician if you feel unwell

#### 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

Therer is no specific and immedate 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

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

## 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.

## 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 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.

## 7.2 Conditions for safe storage, including incompatabilities

#### 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 .1 Control parameters

# Exposure limit values

Expectate tittle values		
Chemical name	OSHA Permissible Exposure Limits (PEL)	ACGIH TLV-TWA
Glycerol	15mg/m3	10mg/m3(mist,TWA,2009)

# 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.

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9.Physical and chemical properties

Appearance Blue green Liquid
Odour A little peculiar odour
Odour threshold No data available

**pH** 7.6~8.6

Evaporation rate No data available Flammability 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 Relative density No data available Water solubility Soliuble in water 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

Other information

No data available

Oxidising properties

#### 10. Stability and reactivity

Chemical stability This product is stable in normal condition.

No data available

Materials to AvoidNo data availableConditions to avoidNo data availableIncompatible materialsNo data availableHazardous decomposition productsNo data available

## 11. Toxicological information

Acute toxicity-Oral Not classified
Acute toxicity-Dermal Not classified

Acute toxicity-Inhalation: vapour Classification not possible

Skin corrosion / irritation Not classified Serious eye damage / eye irritation Category 2

Respiratory or skin sensitization Classification not possible / Category 1

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity(Singel exposure)

Specific target organ toxicity(Repeated exposure)

Not classified

Not classified

Not classified

Not classified

Aspiration hazard Classification not possible

## 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 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 t	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)

Not classified Hazardous to the aquatic environment(chronic)

Not classified

## 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

2019/4/11 First version

# Safety Data Sheet

Version OSHA-1.0 Date of issue :2018-11-14

Revision Date:

### 1. Identification of the mixture and of the company

#### 1.1- Product identifier

Product name : Ink for Sarasa Clip 0.5(Light Blue)

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

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

1.3 - Details of the suplier 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

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(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 Not classified Acute toxicity-Dermal Not classified

Acute toxicity-Inhalation: vapour Classification not possible

Unknown Acute Oral Toxicity: 36% of the mixture consists of ingredient(s) of unknown acute toxicity
Unknown Acute Dermal Toxicity: 37% of the mixture consists of ingredient(s) of unknown acute toxicity
Unknown Acute Inhalation: vapour Toxicity: 64% of the mixture consists of ingredient(s) of unknown acute toxicity

Skin corrosion / irritation Not classified Serious eye damage / eye irritation Category 2

Respiratory or skin sensitization Classification not possible / Category 1

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity(Singel exposure)

Specific target organ toxicity(Repeated exposure)

Not classified

Not classified

Not classified

Not classified

Aspiration hazard Classification not possible

**Environmental hazards** 

Hazardous to the aquatic environment(acute) Not classified Hazardous to the aquatic environment(chronic) Not classified

Hazard(s) not otherwise classified (HNOC)

None known.

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#### 2.2 Label elements

#### Pictograms or Symbol

Exclamation mark



#### Signal Word

WARNING

#### Hazard statement

- · Causes serious eye irritation
- May cause an allergic skin reaction

## **Precautionary Statements**

## Prevention

- ·Wash hands thoroughly after handling
- Avoid breathing dust/fume/gas/mist/vapours/spray
- · Contaminated work clothing should not be allowed out of the workplace
- •Wear protective gloves/protective clothing/eye protection/face protection

#### 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
- Take off contaminated clothing and wash it before reuse.
- •Store in a well ventilated place. Keep cool and container tightly closed.

#### 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

Componer	t Amount	CAS No.	
Pigments	0-1%	Trade Secret	
Resins	15-20%	Trade Secret	
Water	50-55%	7732-18-5	
Glycerol	20-30%	56-81-5	
Additives	5-10%	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:

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

Wash with soap and water

If skin irritation or a rash occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse.

## After eye contact:

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do

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.

## 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

Therer is no specific and immedate 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

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

## 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.

## 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 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.

#### 7.2 Conditions for safe storage, including incompatabilities

#### 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 .1 Control parameters

#### Exposure limit values

Chemical name	OSHA Permissible Exposure Limits (PEL)	ACGIH TLV-TWA
Glycerol	15mg/m3	10mg/m3(mist,TWA,2009)

## 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** Light blue Liquid Odour A little peculiar odour Odour threshold No data available No data available рΗ Evaporation rate No data available Flammability No data available Melting point / Coagulating point No data available Boiling point No data available No data available Flash point 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 This ink is soluble in water.

Partition coefficient n-octanol/water
Ignition point
Decomposition point
Viscosity
No data available
Explosive properties
No data available
Oxidising properties
No data available
No data available

Other information 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

Skin corrosion / irritation Not classified Serious eye damage / eye irritation Category 2

Respiratory or skin sensitization Classification not possible / Category 1

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity(Singel exposure)

Specific target organ toxicity(Repeated exposure)

Not classified

Not classified

Not classified

Not classified

Aspiration hazard Classification not possible

## 12. Ecological information

Hazardous to the aquatic environment(acute)
Not classified
Hazardous to the aquatic environment(chronic)
Not classified

Degradability

Bioaccumulative potential

Mobility in soil

No data is available

No data is available

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

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(ad	cute) Not	classified
Hazardous to the	aquatic environment(cl	nronic) Not	classified

#### 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

2018/11/14 First version

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# Safety Data Sheet

Version OSHA-1.0 Date of issue :2019-04-11

Revision Date:

### 1. Identification of the mixture and of the company

#### 1.1- Product identifier

Product name : Ink for Sarasa Clip 0.5(Light Pink)

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

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

#### 1.3 - Details of the suplier 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

Pyrophoric liquids

Self-heating mixtures

Corrosive to metals

Not classified

Not classified

Not classified

Not classified

# Health hazards

Acute toxicity-Oral Not classified Acute toxicity-Dermal Not classified

Acute toxicity-Inhalation: vapour Classification not possible

Unknown Acute Oral Toxicity:
Unknown Acute Dermal Toxicity:
Unknown Acute Inhalation: vapour Toxicity:

40% of the mixture consists of ingredient(s) of unknown acute toxicity.

41% of the mixture consists of ingredient(s) of unknown acute toxicity.

68% of the mixture consists of ingredient(s) of unknown acute toxicity.

Skin corrosion / irritation Not classified Serious eye damage / eye irritation Category 2

Respiratory or skin sensitization Classification not possible / Category 1

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity(Singel exposure)

Specific target organ toxicity(Repeated exposure)

Not classified

Not classified

Not classified

Not classified

Aspiration hazard Classification not possible

## Environmental hazards

Hazardous to the aquatic environment(acute) Not classified Hazardous to the aquatic environment(chronic) Not classified

#### Hazard(s) not otherwise classified (HNOC)

None known.

#### 2.2 Label elements

## Pictograms or Symbol

Exclamation mark



#### Signal Word

Warning

#### Hazard statement

- •May cause an allergic skin reaction
- · Causes serious eye irritation

#### **Precautionary Statements**

#### Prevention

- Avoid breathing dust/fume/gas/mist/vapours/spray
- ·Wash hands thoroughly after handling
- •Contaminated work clothing should not be allowed out of the workplace
- •Wear protective gloves/protective clothing/eye protection/face protection

## Response

•IF IN EYES: Rinse continuously with water for several minutes.

Remove contact lenses if present and easy to do . Continue rinsing

- •IF ON SKIN: Wash with soap and water
- •If skin irritation or a rash occurs: Get medical advice/attention
- •If eye irritation persists : 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.	
Pigments	1-5%	Trade Secret	
Resins	15-20%	Trade Secret	
Water	45-50%	7732-18-5	
Glycerol	20-25%	56-81-5	
Additives	5-10%	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:

IF INHALED: Call a POISON CENTER or 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

IF ON SKIN: Wash with soap and water

If skin irritation or a rash occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse.

#### After eye contact:

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

#### After ingestion:

Call a POISON CENTER or doctor/physician if you feel unwell

#### 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

Therer is no specific and immedate 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

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

## 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.

## 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 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.

## 7.2 Conditions for safe storage, including incompatabilities

#### 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 .1 Control parameters

# Exposure limit values

Expectate tittle values		
Chemical name	OSHA Permissible Exposure Limits (PEL)	ACGIH TLV-TWA
Glycerol	15mg/m3	10mg/m3(mist,TWA,2009)

## 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

Pink Liquid Appearance

Odour A little peculiar odour Odour threshold No data available

7.6~8.6

рΗ Evaporation rate No data available Flammability 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 Relative density No data available Water solubility Soliuble in water 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 No data available Oxidising properties

Other information 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

Skin corrosion / irritation Not classified Serious eye damage / eye irritation Category 2

Respiratory or skin sensitization Classification not possible / 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 Classification not possible

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 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)

Not classified Hazardous to the aquatic environment(chronic)

Not classified

## 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

2019/4/11 First version

# Safety Data Sheet

Version OSHA-1.0 Date of issue :2018-08-22

Revision Date:

### 1. Identification of the mixture and of the company

#### 1.1- Product identifier

Product name : Ink for Sarasa Clip 0.5(Magenta)

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

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

#### 1.3 - Details of the suplier 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

Pyrophoric liquids

Self-heating mixtures

Corrosite to metals

Not classified
Not classified
Not classified

# Health hazards

Acute toxicity-Oral Not classified Acute toxicity-Dermal Not classified

Acute toxicity-Inhalation: vapour Classification not possible

Unknown Acute Oral Toxicity: 0.7% of the mixture consists of ingredient(s) of unknown acute toxicity.

Unknown Acute Dermal Toxicity: 53.6% of the mixture consists of ingredient(s) of unknown acute toxicity.

Unknown Acute Inhalation: vapour Toxicity: 77.1% of the mixture consists of ingredient(s) of unknown acute toxicity.

Skin corrosion / irritation Category 2
Serious eye damage / eye irritation Category 2

Respiratory or skin sensitization Classification not possible / Category 1

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Not classified

Not classified

Category 1B

Specific target organ toxicity (Singel exposure) Category 1 (respiratory organs,nerve center,heart,kindney)

- 1 -

Specific target organ toxicity(Repeated exposure) Category 1 (respiratory organs,nerve center,heart)

Aspiration hazard Classification not possible

# Environmental hazards

Item Numbers: 21074-1129

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

Exclamation mark







#### Signal Word

Danger

#### Hazard statement

- · Causes skin irritation
- •May cause an allergic skin reaction
- ·Causes serious eye irritation
- •May damage fertility or the unborn child
- Causes damage to organs (respiratory organs,nerve center,heart,kindney)
- Causes damage to organs through prolonged or repeated exposure (respiratory organs,nerve center,heart)
- · Harmful to aquatic life
- •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 breathe dust/vapours
- •Do not eat, drink or smoke when using this product
- Contaminated work clothing should not be allowed out of the workplace
- •Wear protective gloves/eye protection.
- Wash hand throughly after handling
- · Avoid release to the environment

#### Response

- •IF ON SKIN: Wash with soap and water
- •If skin irritation or a rash occurs: Get medical advice/attention
- •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
- \*IF exposed or concerned: 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.	
Pigments	1-5%	Trade Secret	
Ethylene glycol	1-5%	107-21-1	
Glycerol	20-30%	56-81-5	
Water	50-60%	7732-18-5	
Additives	10-20%	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:

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

Take off contaminated clothing and wash it before reuse.

Call a POISON CENTER or 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.

## 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

Therer is no specific and immedate treatment, but should consult a doctor.

#### 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

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Remove nearby ignition source and hot surface.

#### 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 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.

## 7.2 Conditions for safe storage, including incompatabilities

#### 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 .1 Control parameters

## Exposure limit values

Exposure limit values					
Chemical name	OSHA Permissible Exposure Limits (PEL)	ACGIH TLV-TWA			
Ethylene glycol	Not established	100mg/m3(aerosol, TLV-C(STEL), 2009)			
Triethanolamine	Not established	5mg/m3 (TWA, 2009)			
Glycerol	Not established	10mg/m3 (mist, TWA, 2009)			

## 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

Item Numbers: 21074-1129

# Respiratory protection

If necessary use suitable respiratory protection.

# Hand protection

Use suitable protective gloves.

## Eye protection

Use suitable eye protection.

Skin/body protection

- 4 -

•

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

AppearanceRed LiquidOdourSlightly smellOdour thresholdNo data available

**pH** 8–9

Evaporation rate No data available Flammability No data available Melting point / Coagulating point No data available No data available **Boiling point** Flash point No data available **Explosive limit UEL** No data available Explosive limit LEL No data available No data available Vapour pressure Vapour density No data available Relative density No data available

Water solubility This ink is soluble in water.

Partition coefficient n-octanol/water
Ignition point
No data available
Viscosity
No data available
Explosive properties
No data available
Oxidising properties
No data available

Other information No data available

10. Stability and reactivity

Chemical stability This product is stable in normal condition.

Materials to AvoidNo data availableConditions to avoidNo data availableIncompatible materialsNo data availableHazardous decomposition productsNo data available

## 11. Toxicological information

Acute toxicity-Oral Not classified
Acute toxicity-Dermal Not classified

Acute toxicity-Inhalation: vapour Classification not possible

Skin corrosion / irritation Category 2
Serious eye damage / eye irritation Category 2

Respiratory or skin sensitization Classification not possible / Category 1

Germ cell mutagenicity
Carcinogenicity
Not classified
Not classified
Reproductive toxicity
Category 1B

**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 Classification not possible

## 12. Ecological information

Hazardous to the aquatic environment(acute)

Category 3

Hazardous to the aquatic environment(chronic)

Category 3

Degradability No data is available

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Bioaccumulative potential

Mobility in soil

No data is available 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)

Not classified Hazardous to the aquatic environment(chronic)

Not classified

# 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

2018/8/22 First version

# Safety Data Sheet

Version OSHA-1.0 Date of issue :2019-04-11

Revision Date:

### 1. Identification of the mixture and of the company

#### 1.1- Product identifier

Product name : Ink for Sarasa Clip 0.5(Pale Blue)

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

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

#### 1.3 - Details of the suplier 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

Pyrophoric liquids

Self-heating mixtures

Corrosite to metals

Not classified
Not classified
Not classified

# Health hazards

Item Numbers: 21074-1129

Acute toxicity-Oral Not classified Acute toxicity-Dermal Not classified

Acute toxicity-Inhalation: vapour Classification not possible

Unknown Acute Oral Toxicity: 35% of the mixture consists of ingredient(s) of unknown acute toxicity.
Unknown Acute Dermal Toxicity: 36% of the mixture consists of ingredient(s) of unknown acute toxicity.
Unknown Acute Inhalation: vapour Toxicity: 63% of the mixture consists of ingredient(s) of unknown acute toxicity.

- 1 -

Skin corrosion / irritation Not classified Serious eye damage / eye irritation Category 2

Respiratory or skin sensitization Classification not possible / Category 1

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity (Singel exposure)

Specific target organ toxicity (Repeated exposure)

Aspiration hazard

Not classified

Not classified

Not classified

Not classified

Environmental hazards

Hazardous to the aquatic environment(acute)

Not classified Hazardous to the aquatic environment(chronic)

Not classified

#### Hazard(s) not otherwise classified (HNOC)

None known.

#### 2.2 Label elements

## Pictograms or Symbol

Exclamation mark



#### Signal Word

Warning

# Hazard statement

- •May cause an allergic skin reaction
- · Causes serious eye irritation

#### **Precautionary Statements**

#### Prevention

- Avoid breathing dust/vapours
- Contaminated work clothing should not be allowed out of the workplace
- $\hbox{\bf •Wear protective gloves/protective clothing/eye protection/face protection}$

#### Response

- •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

- •If skin irritation or a rash occurs: Get medical advice/attention
- •If eye irritation persists : Get medical advice/attention
- •Take off contaminated clothing and wash it before reuse.

#### Storage

#### Disposal

## 3. Composition/information on ingredients

3.1 Substance : Not applicable

## 3.2 Mixture

## Component and Amount

Component	Amount	CAS No.	
Pigments	O-1%	Trade Secret	
Pigment dispersion	1-10%	Trade Secret	
Resins	10-15%	Trade Secret	
Water	50-55%	7732-18-5	
Glycerol	20-25%	56-81-5	
Additives	5-10%	Trade Secret	
Triethanolamine	0-1%	102-71-6	

## 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

Call a POISON CENTER or doctor/physician if you feel unwell

## After skin contact:

IF ON SKIN: Wash with soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

If skin irritation or a rash occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse.

#### 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 POISON CENTER or doctor/physician if you feel unwell

#### 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

Therer is no specific and immedate treatment, but should consult a doctor.

# 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

# 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 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.

# 7.2 Conditions for safe storage, including incompatabilities

#### 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 .1 Control parameters

#### Exposure limit values

Chemical name	OSHA Permissible Exposure Limits (PEL)	ACGIH TLV-TWA
Glycerol	Not established	10mg/m3 (mist, TWA, 2009)
Triethanolamine	Not established	5mg/m3 (TWA, 2009)

## 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 Blue Liquid Odour Peculiar odour No data available Odour threshold рΗ No data available **Evaporation rate** No data available Flammability 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 No data available Vapour density Relative density No data available No data available Water solubility 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

Other information

No data available

# 10. Stability and reactivity

Chemical stability This product is stable in normal condition.

Materials to AvoidNo data availableConditions to avoidNo data availableIncompatible materialsNo data availableHazardous decomposition productsNo data available

### 11. Toxicological information

Acute toxicity-Oral Not classified
Acute toxicity-Dermal Not classified

Acute toxicity-Inhalation: vapour Classification not possible

Skin corrosion / irritation Not classified Serious eye damage / eye irritation Category 2

Respiratory or skin sensitization Classification not possible / Category 1

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity(Singel exposure)

Specific target organ toxicity(Repeated exposure)

Aspiration hazard

Not classified
Not classified
Not classified

# 12. Ecological information

Hazardous to the aquatic environment(acute) Not classified Hazardous to the aquatic environment(chronic) Not classified

DegradabilityNo data is availableBioaccumulative potentialNo data is availableMobility in soilNo 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)

10, (0, 1, (), () an anapole,	
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)	Not classified
Hazardous to the	aquatic	environment(chronic)	Not classified

#### 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

2019/4/11 First version

# Safety Data Sheet

Version OSHA-1.0 Date of issue :2018-07-31

Revision Date:

# 1. Identification of the mixture and of the company

#### 1.1- Product identifier

Product name : Ink for Sarasa Clip 0.5(Violet)

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

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

#### 1.3 - Details of the suplier 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

Pyrophoric liquids

Self-heating mixtures

Corrosive to metals

Not classified
Not classified
Not classified

# Health hazards

Acute toxicity-Oral Not classified Acute toxicity-Dermal Not classified

Acute toxicity-Inhalation: vapour Classification not possible

Unknown Acute Oral Toxicity: 35% of the mixture consists of ingredient(s) of unknown acute toxicity.

Unknown Acute Dermal Toxicity: 36.15% of the mixture consists of ingredient(s) of unknown acute toxicity.

Unknown Acute Inhalation: vapour Toxicity: 63.15% of the mixture consists of ingredient(s) of unknown acute toxicity.

Skin corrosion / irritation Not classified Serious eye damage / eye irritation Category 2

Respiratory or skin sensitization Classification not possible / Category 1

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity(Singel exposure)

Specific target organ toxicity(Repeated exposure)

Not classified

Not classified

Not classified

Aspiration hazard Classification not possible

# Environmental hazards

Hazardous to the aquatic environment(acute) Not classified Hazardous to the aquatic environment(chronic) Not classified

### Hazard(s) not otherwise classified (HNOC)

None known.

#### 2.2 Label elements

# Pictograms or Symbol

Exclamation mark





#### Signal Word

Danger

# Hazard statement

- ·Causes serious eye irritation
- •May cause an allergic skin reaction
- ·May damage fertility or the unborn child

# **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
- Avoid breathing dust/vapours
- Contaminated work clothing should not be allowed out of the workplace
- •Wear protective gloves/eye protection.
- ·Wash hand throughly after handling
- Avoid release to the environment

#### Response

- •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

- \*IF exposed or concerned: Get medical advice/attention
- •If skin irritation or a rash 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.	
Pigments	1-5%	Trade Secret	
Resins	15-20%	Trade Secret	
Water	50-55%	7732-18-5	
Glycerol	20-25%	56-81-5	
Additives	5-10%	Trade Secret	
Triethanolamine	O-1%	102-71-6	

### 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  $\S 1910.1200$  of 29 CFR1910.1200 .

### 4. First-aid measures

# 4.1 Description of 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

Call a doctor/physician if you feel unwell.

Take off contaminated clothing and wash it before reuse.

#### After eye contact:

Rinse continuously with water for several minutes.

Remove contact lenses if present and easy to do . Continue rinsing

If eve 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.

## 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

Therer is no specific and immedate treatment, but should consult a doctor.

#### 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

## 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 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.

# 7.2 Conditions for safe storage, including incompatabilities

#### 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 .1 Control parameters

#### Exposure limit values

Chemical name	OSHA Permissible Exposure Limits (PEL)	ACGIH TLV-TWA
Glycerol	Not established	10mg/m3 (mist, TWA, 2009)
Triethanolamine	Not established	5mg/m3 (TWA, 2009)

## 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 Odour Odour threshold pH Purple Liquid Slightly smell No data available

7-8

**Evaporation rate** No data available Flammability No data available Melting point / Coagulating point No data available **Boiling** point No data available No data available Flash point **Explosive limit UEL** No data available Explosive limit LEL No data available No data available Vapour pressure Vapour density No data available Relative density 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 Viscosity No data available Explosive properties No data available Oxidising properties No data available

Other information 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

Skin corrosion / irritation Not classified

Serious eye damage / eye irritation Category 2

Respiratory or skin sensitization Classification not possible / Category 1

Germ cell mutagenicity Not classified Carcinogenicity Not classified Reproductive toxicity Category 1B Specific target organ toxicity(Singel exposure) Not classified Specific target organ toxicity(Repeated exposure) Not classified

Classification not possible Aspiration hazard

# 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 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)

Not applicable
_
_
_

# ADR/RID(Land transport)

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

## 14.5 Environmental hazards

Hazardous to the aquatic environment(acute)

Hazardous to the aquatic environment(chronic)

Not classified

Not classified

# 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

2018/7/31 First version

# Safety Data Sheet

Date of issue: 2017-04-01

Revision Date: -

# 1. Identification of the mixture and of the company

Product name : Ink for MILDLINER(WKT7-MR·MP·MOR·MY·MG·MBG·MBL·MDB·MVI·MGR·MSB·

MGO·ME·MMZ·MVE)

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

Pyrophoric liquids

Self-heating mixtures

Corrosive to metals

Not classified

Not classified

Not classified

Not classified

## Health hazards

Acute toxicity-Oral Not classified
Acute toxicity-Dermal Not classified
Acute toxicity-Inhalation: vapour Not classified

Acute toxicity-Inhalation: mist Classification not possible

Skin corrosion / irritation Category 3
Serious eye damage / eye irritation Category 2

Respiratory or skin sensitization Classification not possible / Category 1

Germ cell mutagenicity
Carcinogenicity
Classification not possible

# 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



### Signal Word

Warning

# Hazard statement

- Causes mild skin irritation
- May cause an allergic skin reaction
- · Causes serious eye irritation

#### **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 throughly after handling
- Avoid release to the environment

## Response

- •IF ON SKIN: Wash with soap and water
- •If skin irritation or a rash occurs: Get medical advice/attention
- Wash contaminated clothing before reuse
- •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

#### 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)
Pigment Dispersions	30-55%	Nondisclosure	Nondisclosure(registered)
Glycerol	15-25%	56-81-5	(2)-242
Water	30-45%	7732-18-5	<del>_</del>
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 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)	
Glycerol	Not established	10mg/m3 (mist, TWA, 2009)	9) 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** 5.0-7.5

Melting point / Coagulating point No data available Boiling point Over 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 No data available No data available Water solubility Partition coefficient n-octanol/water No data available No data available Ignition point Decomposition point No data available

# 10. Stability and reactivity

Chemical stability This product is stable in normal condition.

Materials to AvoidNo data availableConditions to avoidNo data availableIncompatible materialsNo data availableHazardous decomposition productsNo 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 Classification not possible

Skin corrosion / irritationCategory 3Serious eye damage / eye irritationCategory 2

Respiratory or skin sensitization Classification not possible / Category 1

Germ cell mutagenicity
Carcinogenicity
Classification not possible

# 12. Ecological information

Hazardous to the aquatic environment(acute)
Not classified
Hazardous to the aquatic environment(chronic)
Not classified

DegradabilityNo data is availableBioaccumulative potentialNo data is availableMobility in soilNo 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"

Not applicable

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

	<b>※</b> 1	<b>※</b> 2	<b>※</b> 3
Sodium alpha-dodecan-1-yl-omega-(sulfonatooxy)poly(oxyethylene)	1.2%	1.5%	Not applicable

※1 MR⋅MG⋅MDB

※2 MVI·MGR·MSB·MGO·ME·MMZ·MVE

※3 Except ※1, 2 color

## 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