Safety Data Sheet

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

Product name : Ink for Sarasa Clip 0.5(Black)
1.2 - Relevant identified uses of the substance or mixtu	
•Use of the substance/mixture : Ink for writing	÷
•Recommended restrictions on use : No informat	
Uses Advised Against : No informat	ion available
1.3 - Details of the suplier of the SDS	
•Manufacture : ZEBRA CO., LTD.	
	o 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)	
Hazards identification	
Classification of the chemical in accordance with paragr	raph (d) of §1910.1200
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: 2.4% of the 2.4\% of the 2	he 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 eve damage / eve irritation	Category 2
Respiratory or skin sensitization	Classification not possible / Category 1
Germ cell mutagenicity	Not classified
Carcinogenicity	Category 2
,	Category 1B
Reproductive toxicity	Category 1 (respiratory organs, nerve center, heart, kindney)
Reproductive toxicity Specific target organ toxicity (Singel exposure)	
	Category 1 (respiratory organ, nerve center, heart)
Specific target organ toxicity (Singel exposure)	Category 1 (respiratory organ, nerve center, heart)
Specific target organ toxicity (Singel exposure) Specific target organ toxicity(Repeated exposure) Aspiration hazard	
Specific target organ toxicity (Singel exposure) Specific target organ toxicity(Repeated exposure) Aspiration hazard	Category 1 (respiratory organ, nerve center, heart)
Specific target organ toxicity (Singel exposure) Specific target organ toxicity(Repeated exposure) Aspiration hazard Environmental hazards	Category 1 (respiratory organ, nerve center, heart) Classification not possible
Specific target organ toxicity (Singel exposure) Specific target organ toxicity(Repeated exposure) Aspiration hazard Environmental hazards Hazardous to the aquatic environment(acute)	Category 1 (respiratory organ, nerve center, heart) Classification not possible Not classified
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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
- •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
- $\ensuremath{\cdot}\xspace{\mathsf{Do}}$ 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 eve irritation persists : Get medical advice/attention
- If eye irritation persists : Get medical advice/ attention
- IF exposed or concerned: Get medical advice/attention • Get Medical advice/attention if you feel unwell
- 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

Component	Amount	CAS No.	
Pigments	1-5%	Nondisclosure	
Resins	0-5%	Nondisclosure	
Water	50-55%	7732-18-5	
Glycerol	25-35%	56-81-5	
Additives	10-15%	Nondisclosure	

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 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 neede	Ч
Therer is no specific and immediate treatment, but should consult a doctor.	u
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 a factor data and the second and the second for the first state of the second	
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.	
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.	
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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

Degradability Bioaccumulative potential Mobility in soil		No data is available No data is available No data is available
2. Ecological information Hazardous to the aquatic environment(Hazardous to the aquatic environment(· · .	Not classified Not classified
2. Ecological information		
Aspiration hazard		Classification not possible
Specific target organ toxicity(Repeate	-	Category 1 (respiratory organ, nerve center, heart)
Specific target organ toxicity(Singel ex	(posure)	Category 1 (respiratory organs, nerve center, heart, kindney
Reproductive toxicity		Category 1B
Carcinogenicity		Category 2
Germ cell mutagenicity		Not classified
Respiratory or skin sensitization		Classification not possible / Category 1
Serious eye damage / eye irritation		Category 2
Skin corrosion / irritation		Not classified
Acute toxicity Dennal Acute toxicity-Inhalation:vapour		Classification not possible
Acute toxicity-Dermal		Not classified
l . Toxicological information Acute toxicity–Oral		Not classified
Hazardous decomposition products	No data available	
Incompatible materials	No data availa	
Conditions to avoid	No data availa	
Materials to Avoid	No data availa	
D. Stability and reactivity Chemical stability	•	is stable in normal condition.
No data available		
ther information		
Oxidising properties	No dat	a available
Explosive properties	No dat	a available
Viscosity		a available
Decomposition point		a available
Ignition point		a available
Partition coefficient n-octanol/water		a available
Water solubility		a available e in water.
Vapour density Relative density		a available a available
Vapour pressure Vapour density		a available a available
Explosive limit LEL		a available a available
		a available
Flash point		
Boiling point		
Melting point / Coagulating point	No dat	a available
Flammability		a available
Evaporation rate	No dat	a available
pН	8-9	
Odour threshold		a available
Odour	Slightly	/ smell

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.

.1 Un number			
.2 UN proper shipping name			
.3 Transport hazard class(es)			
.4 Packaging group			
ernational 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	_		
Class Packing Group Shipping name	-		
	-		
.5 Environmental hazards Hazardous to the aquatic	an incompant(a sut a)	Not classified	
Hazardous to the aquatic		Not classified	
.6 Special precautions for use		Not classified	
Not applicable.			
ecial precautions			
Prevent from falling, stumbli	ng and doing damage wh	en the container loading	
Avoid acute vibration and fri		en the container loading	
		like acute leak in transporting,	
		once to disaster management agency	
Avoid transport with foods of	•		
		nstruments filled with the ink.	
an regulation in your cou			
Regulatory information			
llow all regulation in your cou			

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.

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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 :

1.1- Product identifier Product name : Ink for Sarasa Clip 0.5(I	Blue Green)	
1.2 - Relevant identified uses of the substance or		
	r writing implement	
•Recommended restrictions on use : No information available		
5	ormation available	
1.3 – Details of the suplier of the SDS		
•Manufacture : ZEBRA CO., LTE		
	2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN	
TEL : +81-3-3268-119		
FAX : +81-3-3268-119	7	
1.4 - Emergency telephone number		
•Manufacture : +81-3-3268-119	93	
This phone numb	ber is available only during office hours: 9 a.m. to half past 5 p.m.	
(Japan time)		
llemende identifiestion		
Hazards identification		
Classification of the chemical in accordance with p	oaragraph (d) of § 1910.1200	
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: 40	0% of the mixture consists of ingredient(s) of unknown acute toxicity	
	1% of the mixture consists of ingredient(s) of unknown acute toxicity	
	8% 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	Not classified	
Carcinogenicity	Not classified	
Reproductive toxicity	Not classified	
Specific target organ toxicity (Singel exposure		
Specific target organ toxicity(Repeated expos	ure) 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	
Hazardous to the aquatic environment(chronic)) Not classified	
	- 1 -	

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%	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

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

8.2 Exposure controls

Equipment measures

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.

Put up local exhaust ventilation.Use explosion-proof electrical/ventilating/lighting.

9.Physical and chemical properties			
	Blue green Liquid		
	A little peculiar odour		
	No data available		
	7.6~8.6		
• · · ·	No data available		
•	No data available		
· · · · · · · · · · · · · · · · · · ·	No data available		
	No data available		
	No data available		
-	No data available		
	data available		
-	o data available o data available		
	No data available		
	Soliuble in water		
-	No data available		
	No data available		
-0	No data available		
	No data available No data available		
	No data available No data available		
	No data available No data available		
Oxidising properties N Other information	NU UALA AVAIIADIE		
No data available			
10. Stability and reactivity	This was done in stable in a small sea dision		
-	This product is stable in normal condition.		
	No data available		
	No data available		
	data available		
Hazardous decomposition products	No data available		
11. Toxicological information			
-			
	Not allocation		
Acute toxicity-Oral	Not classified		
Acute toxicity-Dermal	Not classified		
Acute toxicity-Dermal Acute toxicity-Inhalation : vapour	Not classified Classification not possible		
Acute toxicity-Dermal Acute toxicity-Inhalation : vapour Skin corrosion / irritation	Not classified Classification not possible Not classified		
Acute toxicity–Dermal Acute toxicity–Inhalation : vapour Skin corrosion / irritation Serious eye damage / eye irritation	Not classified Classification not possible Not classified Category 2		
Acute toxicity–Dermal Acute toxicity–Inhalation : vapour Skin corrosion / irritation Serious eye damage / eye irritation Respiratory or skin sensitization	Not classified Classification not possible Not classified Category 2 Classification not possible∕Category 1		
Acute toxicity–Dermal Acute toxicity–Inhalation : vapour Skin corrosion / irritation Serious eye damage / eye irritation Respiratory or skin sensitization Germ cell mutagenicity	Not classified Classification not possible Not classified Category 2 Classification not possible/Category 1 Not classified		
Acute toxicity–Dermal Acute toxicity–Inhalation : vapour Skin corrosion / irritation Serious eye damage / eye irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	Not classified Classification not possible Not classified Category 2 Classification not possible/Category 1 Not classified Not classified		
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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 Not classified Hazardous to the aquatic environment(chronic) 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 :

Product name : Ink for S	arasa Clip 0.5(Light	Blue)
1.2 - Relevant identified uses of the		
•Use of the substance/mixture	: Ink for writin	
 Recommended restrictions on 	use : No informat	ion available
•Uses Advised Against	: No informat	ion available
1.3 – Details of the suplier of the S		
	BRA CO., LTD.	
		o Shinjuku-ku Tokyo JAPAN
	1-3-3268-1193	
FAX : +8	1-3-3268-1197	
1.4 – Emergency telephone number		
•Manufacture : +8	1-3-3268-1193	
Tł	is phone number is	available only during office hours: 9 a.m. to half past 5 p.m.
(J	apan time)	
Hazards identification		
Classification of the chemical in acc	ordance with parag	raph (d) of §1910.1200
1 Classification of the substance or Developed because	mixture	
Physical hazards		
Elemente la linuida		aifi a d
Flammable liquids	Not clas	
Pyrophoric liquids	Not clas	sified
Pyrophoric liquids Self-heating mixtures	Not class Not class	sified
Pyrophoric liquids Self-heating mixtures Corrosive to metals	Not clas	sified
Pyrophoric liquids Self-heating mixtures Corrosive to metals Health hazards	Not class Not class Not class	sified sified sified
Pyrophoric liquids Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral	Not class Not class Not class Not class	sified sified sified sified
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2.2 Label elements

Pictograms or Symbol

Exclamation mark



Signal Word

WARNING Hazard statement

azard 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

3.2 Mixture

Component and Ar	nount	Component and Amount		
Component	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		

: Not applicable

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 dc 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 va	alues

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
рH	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

o data available	
No data available	
No data available	
No data available	
nis ink is soluble in water.	
o data available	
No data available	
No data available	
is product is stable in normal condition.	
No data available	
No data available	
No data available	
o data available	
Not classified	
Not classified	
Classification not possible	
Not classified	
Category 2	
Classification not possible / Category 1	
Not classified	
e) Not classified	
Classification not possible	
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Not classified	
NUL GIASSIIICU	
No data is available	
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No data is available No data is available	
egulations.	

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

2018/11/14 First version

Safety Data Sheet

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

Product name : Ink for Sarasa Clip	0.5(Light Pink)
1.2 - Relevant identified uses of the substance	
	k for writing implement
	o information available
· · · · · · · · · · · · · · · · ·	o information available
1.3 - Details of the suplier of the SDS	
•Manufacture : ZEBRA CO.	,
•	−gokencho Shinjuku−ku Tokyo JAPAN
TEL : +81-3-3268 FAX : +81-3-3268	
FAX : +81-3-3208	-1197
1.4 – Emergency telephone number	
•Manufacture : +81-3-3268	3–1193
This phone	number is available only during office hours: 9 a.m. to half past 5 p.m.
(Japan time	
Hazards identification	
Classification of the chemical in accordance w	vith paragraph (d) of §1910.1200
.1 Classification of the substance or mixture	
Physical hazards	
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Pyrophoric liquids	Not classified
Self-heating mixtures	Not classified
	Not classified Not classified
Self-heating mixtures	
Self-heating mixtures Corrosive to metals	
Self-heating mixtures Corrosive to metals Health hazards	Not classified
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral	Not classified Not classified
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation:vapour	Not classified Not classified Not classified Classification not possible
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal	Not classified Not classified Not classified Classification not possible 40% of the mixture consists of ingredient(s) of unknown acute toxicity
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Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation : vapour <u>Unknown Acute Oral Toxicity:</u> <u>Unknown Acute Dermal Toxicity:</u>	Not classified Not classified Not classified Classification not possible 40% of the mixture consists of ingredient(s) of unknown acute toxicity 41% of the mixture consists of ingredient(s) of unknown acute toxicity
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation : vapour <u>Unknown Acute Oral Toxicity:</u> <u>Unknown Acute Dermal Toxicity:</u> <u>Unknown Acute Inhalation : vapour Toxicity:</u> Skin corrosion / irritation Serious eye damage / eye irritation	Not classified Not classified Not classified Classification not possible 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 Not classified Category 2
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation : vapour <u>Unknown Acute Oral Toxicity:</u> <u>Unknown Acute Dermal Toxicity:</u> <u>Unknown Acute Inhalation : vapour Toxicity:</u> Skin corrosion / irritation Serious eye damage / eye irritation Respiratory or skin sensitization	Not classified Not classified Not classified Classification not possible 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 Not classified
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation : vapour <u>Unknown Acute Oral Toxicity:</u> <u>Unknown Acute Dermal Toxicity:</u> <u>Unknown Acute Inhalation : vapour Toxicity:</u> Skin corrosion / irritation Serious eye damage / eye irritation	Not classified Not classified Not classified Classification not possible 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 Not classified Category 2 Classification not possible / Category 1
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation : vapour <u>Unknown Acute Oral Toxicity:</u> <u>Unknown Acute Dermal Toxicity:</u> <u>Unknown Acute Inhalation : vapour Toxicity:</u> Skin corrosion / irritation Serious eye damage / eye irritation Respiratory or skin sensitization Germ cell mutagenicity	Not classified Not classified Not classified Classification not possible 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 Not classified Category 2 Classification not possible / Category 1 Not classified
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Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation : vapour <u>Unknown Acute Oral Toxicity:</u> <u>Unknown Acute Dermal Toxicity:</u> <u>Unknown Acute Dermal Toxicity:</u> <u>Unknown Acute Inhalation : vapour Toxicity:</u> Skin corrosion / irritation Serious eye damage / eye irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (Singel expo	Not classified Not classified Not classified Classification not possible 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 Not classified Category 2 Classification not possible / Category 1 Not classified Not classified
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation : vapour <u>Unknown Acute Oral Toxicity:</u> <u>Unknown Acute Dermal Toxicity:</u> <u>Unknown Acute Dermal Toxicity:</u> <u>Unknown Acute Inhalation : vapour Toxicity:</u> Skin corrosion / irritation Serious eye damage / eye irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity(Repeated e	Not classified Not classified Not classified Classification not possible 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 Not classified Category 2 Classification not possible / Category 1 Not classified Not classified
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation : vapour <u>Unknown Acute Oral Toxicity:</u> <u>Unknown Acute Dermal Toxicity:</u> <u>Unknown Acute Dermal Toxicity:</u> <u>Unknown Acute Inhalation : vapour Toxicity:</u> Skin corrosion / irritation Serious eye damage / eye irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity(Repeated e Aspiration hazard	Not classified Not classified Not classified Classification not possible 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 Not classified Category 2 Classification not possible / Category 1 Not classified Not classified Not classified Not classified Not classified Not classified Not classified Not classified Not classified Classified Classification not possible
Self-heating mixtures Corrosive to metals Health hazards Acute toxicity-Oral Acute toxicity-Dermal Acute toxicity-Inhalation : vapour <u>Unknown Acute Oral Toxicity:</u> <u>Unknown Acute Dermal Toxicity:</u> <u>Unknown Acute Dermal Toxicity:</u> <u>Unknown Acute Inhalation : vapour Toxicity:</u> Skin corrosion / irritation Serious eye damage / eye irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (Singel expo Specific target organ toxicity (Repeated e Aspiration hazard Environmental hazards	Not classified Not classified Quassification not possible 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 Not classified Category 2 Classification not possible // Category 1 Not classified Classified Not classified Not classified Classified Not classified Not classified Classification not possible Ute) 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

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

8.2 Exposure controls

Equipment measures

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.

Put up local exhaust ventilation.Use explosion-proof electrical/ventilating/lighting.

9.Physical and chemical properties		
••	Pink Liquid	
	•	uliar odour
	No data av	ailable
••••	7.6~8.6	
	No data av	
•	No data av	
	No data av	
	No data av	
	No data available	
	No data av	
Relative density	No data available	
Water solubility	Soliuble in water	
Partition coefficient n-octanol/water	No data available	
	No data available	
	No data av	
Viscosity	No data av	ailable
Explosive properties	No data av	ailable
Oxidising properties	No data av	ailable
Other information		
No data available		
10. Stability and reactivity		
Chemical stability	This produ	ct is stable in normal condition.
	No data av	
	No data av	
	No data av	
Hazardous decomposition products	No data av	ailable
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 exposu		Not classified
Aspiration hazard	(Classification not possible
12. Ecological information		
Hazardous to the aquatic environment(acute)		Not classified
Hazardous to the aquatic environment(chronic)	1	Not classified
Degradability	١	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 Not classified Hazardous to the aquatic environment(chronic) 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 :

	enta)
Product name : Ink for Sarasa Clip 0.5(Mage 1.2 - Relevant identified uses of the substance or mixt	
	ing implement
•Recommended restrictions on use : No information	
Uses Advised Against : No information	tion available
1.3 – Details of the suplier of the SDS	
•Manufacture : ZEBRA CO., LTD.	
	o 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	s available only during office hours: 9 a.m. to half past 5 p.m.
(Japan time)	
Hazards identification	
Classification of the chemical in accordance with parag	raph (d) of §1910.1200
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: 0.7% of t	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
<u>Unknown Acute Inhalation:vapour Toxicity:</u> 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
	Classification not possible/Category 1
Respiratory or skin sensitization	Not classified
Respiratory or skin sensitization Germ cell mutagenicity	Not classified
	Not classified
Germ cell mutagenicity	
Germ cell mutagenicity Carcinogenicity	Not classified
Germ cell mutagenicity Carcinogenicity Reproductive toxicity	Not classified Category 1B
Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (Singel exposure)	Not classified Category 1B Category 1 (respiratory organs,nerve center,heart,kindney
Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (Singel exposure) Specific target organ toxicity(Repeated exposure) Aspiration hazard	Not classified Category 1B Category 1 (respiratory organs,nerve center,heart,kindney Category 1 (respiratory organs,nerve center,heart)
Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (Singel exposure) Specific target organ toxicity(Repeated exposure) Aspiration hazard	Not classified Category 1B Category 1 (respiratory organs,nerve center,heart,kindney Category 1 (respiratory organs,nerve center,heart)
Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (Singel exposure) Specific target organ toxicity(Repeated exposure) Aspiration hazard Environmental hazards	Not classified Category 1B Category 1 (respiratory organs,nerve center,heart,kindney Category 1 (respiratory organs,nerve center,heart) Classification not possible
Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (Singel exposure) Specific target organ toxicity(Repeated exposure) Aspiration hazard Environmental hazards Hazardous to the aquatic environment(acute)	Not classified Category 1B Category 1 (respiratory organs,nerve center,heart,kindney Category 1 (respiratory organs,nerve center,heart) Classification not possible Category 3
Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (Singel exposure) Specific target organ toxicity(Repeated exposure) Aspiration hazard Environmental hazards Hazardous to the aquatic environment(acute)	Not classified Category 1B Category 1 (respiratory organs,nerve center,heart,kindney Category 1 (respiratory organs,nerve center,heart) Classification not possible Category 3

Hazard(s) not otherwise classified (HNOC)

None known.

2.2 Label elements

Pictograms or Symbol Exclamation mark



Health Hazard

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 a
- •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

 $\mbox{\cdot} \mathsf{Dispose}$ of contents/container to in accordance with local government regulation.

3. Composition/information on ingredients

3.1 Substance : Not applicable

3.2 Mixture

Component	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

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
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

Respiratory protection

If necessary use suitable respiratory protection. Hand $\ensuremath{\mathsf{protection}}$

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.

No data available O. 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 1. Toxicological information Not classified Acute toxicity-Oral Not classified Acute toxicity-Inhalation : vapour Classification not possible Skin corrosion / irritation Category 2 Serious eye damage / eye irritation Classified Respiratory or skin sensitization Classified Carcinogenicity Not classified Reproductive toxicity Category 1 Germ cell mutagenicity Category 1 Garainegenicity Category 1 Specific target organ toxicity(Repeated exposure) Category 1 (respiratory organs,nerve center,heart,kindne Specific target organ toxicity(Repeated exposure) Category 3 Aspiration hazard Classification not possible 2. Ecological information Mategory 3 Hazardous to the aquatic environment(acute) Category 3 <t< th=""><th>Appearance</th><th>Red Lic</th><th></th></t<>	Appearance	Red Lic		
pH B-9 Evaporation rate No data available Flammability No data available Boiling point No data available Boiling point No data available Explosive limit UEL No data available Explosive limit UEL No data available Explosive limit UEL No data available Vapour pressure No data available Vapour density No data available Partition coefficient n-octanol/water No data available Decomposition point No data available Decomposition point No data available Decomposition point No data available Other information No data available Other information No data available Other information No data available Incompatible materials to Avoid No data available Incompatible materials No data available <t< th=""><th></th><th></th><th></th></t<>				
Evegoration rate No data available Planmability No data available Matting point / Coagulating point No data available Bolling point No data available Explosive limit UEL No data available Yapour density No data available Vapour pressure No data available Water solubility No data available Relative density No data available Water solubility No data available Partition coefficient r-octanol/water No data available Decomposition point No data available Decomposition point No data available Otta available No data available Decomposition point No data available Otta available No data available Otta available No data available Otta available No data available Ottar available No data available	PH 8-9		lata available	
Flammability No data available Meting point No data available Bolling point No data available Explosive limit LEL No data available Explosive limit LEL No data available Explosive limit LEL No data available Vapour greasure No data available Vapour greasure No data available Vapour density No data available Vapour density No data available Partition coefficient n-octanol/water No data available Becomposition point No data available Decomposition point No data available Other information No data available Other information No data available Incompatible materials Not classifi				
Meting point No data available Boiling point No data available Plash point No data available Explosive limit UEL No data available Vapour pressure No data available Vapour pressure No data available Relative density No data available Water solubility This in its is soluble in water. Partition coefficient n-cotanol/water No data available Ignition point No data available Decomposition point No data available Oxidising properties No data available 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 Protections// Corel No data available Incompatible materials No data available Serious sey elamage / eys intation Category 2 Serious sey elamage / eys intation Category 2	-			
Boiling point No data available Flash point No data available Explosive limit UEL No data available Explosive limit UEL No data available Yapour pressure No data available Vapour density No data available Vapour 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 Vacourity No data available Oxidising properties No data available Oxidising properties No data available Oxidising properties No data available Chemical stability This product is stable in normal condition. Materials to Avoid No data available Conditions to avoid No data available Hazardous decomposition product No data available Hazardous decomposition product No data available Incompatible materials No data available Hazardous decomposition product No data available Incomostity-Ornal Not classified <th>-</th> <th></th> <th></th>	-			
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Degradability No data is available	•			
	Hazardous to the aquatic environment(chronic)	Category 3	
- 5 -	Degradability		No data is available	
- 5 -				
			- 5 -	

Bioaccumulative potential Mobility in soil		No data is available No data is available	
3. Disposal consideration	6		
Waste treatment methods			
Waste residues			
Disposal must be made ac	cording to official regulation	S.	
Avoid release to the envir			
Contaminated container and			
Do not flush into the sewe Remove all contents whe	er. n you dispose of empty con [.]	tainers.	
. Transport information			
14.1 Un number			
14.2 UN proper shipping name			
14.3 Transport hazard class(e			
14.4 Packaging group			
International regulation			
IMDG (Maritime transport)			
UN No.	Not applicable		
Class	-		
Packing Group	-		
Marine Pollutant	-		
Shipping name	-		
ICAO/IATA(Air transpor	+)		
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 aqua		Not classified	
14.6 Special precautions for L	tic environment(chronic)	Not classified	
Not applicable.			
Special precautions			
	bling and doing damage wh	en the container loading	
Avoid acute vibration and		U	
		like acute leak in transporting,	
		once to disaster management agency.	
Avoid transport with foods			
Above regulations are not an	plied to transport of writing	nstruments filled with the ink.	
Above regulations are not app			

Follow all regulation in your country.

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 :

Product name : Ink for Sarasa Clip 0.5(Pale	Blue)
1.2 - Relevant identified uses of the substance or mixt	ure and uses advised against
	ng implement
Recommended restrictions on use : No informative Section : No info	
1.3 - Details of the suplier of the SDS	
•Manufacture : ZEBRA CO., LTD.	
	o 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 (Japan time)	available only during office hours: 9 a.m. to half past 5 p.m.
Hazards identification	
Classification of the chemical in accordance with parag	raph (d) of §1910.1200
I 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-Dermal Acute toxicity-Inhalation:vapour	Not classified Classification not possible
Acute toxicity–Dermal Acute toxicity–Inhalation : vapour <u>Unknown Acute Oral Toxicity:</u> 35% of th	Not classified Classification not possible he mixture consists of ingredient(s) of unknown acute toxicity.
Acute toxicity–Dermal Acute toxicity–Inhalation : vapour Unknown Acute Oral Toxicity: 35% of the second s	Not classified Classification not possible he mixture consists of ingredient(s) of unknown acute toxicity. he mixture consists of ingredient(s) of unknown acute toxicity.
Acute toxicity–Dermal Acute toxicity–Inhalation : vapour Unknown Acute Oral Toxicity: 35% of the second s	Not classified Classification not possible he mixture consists of ingredient(s) of unknown acute toxicity.
Acute toxicity–Dermal Acute toxicity–Inhalation : vapour Unknown Acute Oral Toxicity: 35% of the second s	Not classified Classification not possible he mixture consists of ingredient(s) of unknown acute toxicity. he mixture consists of ingredient(s) of unknown acute toxicity.
Acute toxicity–Dermal Acute toxicity–Inhalation : vapour Unknown Acute Oral Toxicity: 35% of the second s	Not classified Classification not possible he mixture consists of ingredient(s) of unknown acute toxicity. he mixture consists of ingredient(s) of unknown acute toxicity. he mixture consists of ingredient(s) of unknown acute toxicity.
Acute toxicity–Dermal Acute toxicity–Inhalation : vapour Unknown Acute Oral Toxicity: 35% of the second s	Not classified Classification not possible he mixture consists of ingredient(s) of unknown acute toxicity. he mixture consists of ingredient(s) of unknown acute toxicity. he mixture consists of ingredient(s) of unknown acute toxicity. Not classified Category 2 Classification not possible / Category 1
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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
- •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	0-1%	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.

Cool containers with large quantities of water until well after extin

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.

 $\label{eq:Keep} {\sf Keep \ sufficient \ ventilation \ if \ the \ area \ is \ indoor.}$

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

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
Odour threshold	No data available
pН	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		a available	
Explosive limit UEL		a available	
Explosive limit LEL		a available	
Vapour pressure		o data available	
Vapour density		a available	
Relative density			No data available
Water solubility		a available	
Partition coefficient n-octanol/water		a available	
Ignition point		a available	
Decomposition point		a available	
Viscosity		a available	
Explosive properties		a available	
Oxidising properties	No data	a available	
Other information No data available			
10. Stability and reactivity			
Chemical stability	•	s stable in normal condition.	
Materials to Avoid	No data availa		
Conditions to avoid	No data availa		
Incompatible materials	No data availa		
Hazardous decomposition products	No data availa	able	
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 ex	(posure)	Not classified	
Specific target organ toxicity(Repeated	d exposure)	Not classified	
Aspiration hazard		Not classified	
12. Ecological information			
Hazardous to the aquatic environment(acute)	Not classified	
Hazardous to the aquatic environment		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 regulat	tions.	
Avoid release to the environment.			
Contaminated container and packagir	ng		
Do not flush into the sewer.			
		containers.	

Item Numbers: 21073-1009

14.2 UN proper shipping name)	
14.3 Transport hazard class(e		
14.4 Packaging group		
International regulation		
IMDG (Maritime transport)	1	
UN No.	Not applicable	
Class	-	
Packing Group	-	
Marine Pollutant	_	
Shipping name	-	
ICAO/IATA(Air transpor	+)	
UN No.	Not applicable	
Class	-	
Packing Group	-	
Shipping name ADR/RID(Land transport)	-	
Shipping name	- Not applicable	
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Shipping name ADR/RID(Land transport) UN No. Class Packing Group Shipping name 14.5 Environmental hazards Hazardous to the aqua Hazardous to the aqua H	- - - - tic environment(acute) tic environment(chronic) iser bling and doing damage wh friction for container. ons of hazard in transporting and report the accident at s or feeds.	Not classified

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 :

Classification of the chemical in accordance with paragraph (d) of § 1910.1200 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 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.	Product name : Ink for Sarasa Cli	p 0.5(Violet)
 Recommended restrictions on use is No information available Uses Advised Against is No information available Head Advised Against is No information available Hanufacture is ZEBRA CO., LTD. 2 9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN TEL : +81-3-3268-1193 FAX : +81-3-3268-1193 TAX : +81-3-3268-1193 This phone number is available only during office hours: 9 a.m. to half past 5 p.m. (Japan time) Hazards identification Classification of the substance or mixture Physical hazards Physical hazards Not classified Self-heating mixtures Not classified Acute toxicity-Oral Not classified Acute toxicity-Inhalation : vapour Classification not possible Manown Acute Daral Toxicity: 35% of the mixture consists of ingredient(s) of unknown acute toxicity. Mahonown Acute Daral Toxicity: 63.15% of the mixture consists of ingredient(s) of unknown acute toxicity. Machon Acute Daral Toxicity: 63.15% of the mixture consists of ingredient(s) of unknown acute toxicity. Mahonown Acute Daral Toxicity: 63.15% of the mixture consists of ingredient(s) of unknown acute toxicity. Machon Acute Daral Toxicity: 63.15% of the mixture consists of ingredient(s) of unknown acute toxicity. Mahonown Acute Daral Toxicity: 63.15% of the mixture consists of ingredient(s) of unknown acute toxicity. Machon Acute Daral Toxicit	1.2 – Relevant identified uses of the substan	ice or mixture and uses advised against
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2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN TEL : +81-3-3268-1193 FAX : +81-3-3268-1193 "Manufacture : +81-3-3268-1193 This phone 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) Hazards identification Classification of the chemical in accordance with paragraph (d) of § 1910.1200 1. Classification of the substance or mixture Physical hazards Flammable liquids Not classified Pyrophoric liquids Not classified Corrosive to metals Not classified Acute toxicity-Oral Not classified Acute toxicity-Oral Not classified Acute toxicity-Inhalation: vapour Classification on to possible Unknown Acute Oral Toxicity: 35% of the mixture consists of ingredient(s) of unknown acute toxicity Juhnown Acute Inhalation: vapour Toxicity: 35% of the mixture consists of ingredient(s) of unknown acute toxicity Mannown Acute Inhalation: vapour Toxicity: 35% of the mixture consists of ingredient(s) of unknown acute toxicity Mannown Acute Inhalation: vapour Toxicity: 36.15% of the mixture consists of ingredient(s) of unknown acute toxic	•	
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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 § 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 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

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	Purple Liquid
Odour	Slightly smell
Odour threshold	No data available
pН	7–8

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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	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	

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

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
Aspiration hazard	Classification not possible

12. Ecological information Hazardous to the aquatic environment(acute)

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

Degradability Bioaccumulative potential Mobility in soil Not classified Not classified

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.

4.1 Un number		
4.2 UN proper shipping name		
4.3 Transport hazard class(es	.)	
4.4 Packaging group		
nternational 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	-	
4.5 Environmental hazards		
4.5 Environmental nazarus	c environment(acute)	Not classified
Hazardous to the aquati		
		Not classified
Hazardous to the aquati Hazardous to the aquati	c environment(chronic)	Not classified
Hazardous to the aquati Hazardous to the aquati	c environment(chronic)	Not classified
Hazardous to the aquati Hazardous to the aquati 4.6 Special precautions for us Not applicable.	c environment(chronic)	Not classified
Hazardous to the aquati Hazardous to the aquati 4.6 Special precautions for us Not applicable.	c environment(chronic) e er	
Hazardous to the aquati Hazardous to the aquati 4.6 Special precautions for us Not applicable. Special precautions	c environment(chronic) ser ling and doing damage wh	
Hazardous to the aquati Hazardous to the aquati 4.6 Special precautions for us Not applicable. Special precautions Prevent from falling, stumbl Avoid acute vibration and fi	c environment(chronic) ser ling and doing damage wh riction for container.	
Hazardous to the aquati Hazardous to the aquati 4.6 Special precautions for us Not applicable. Special precautions Prevent from falling, stumbl Avoid acute vibration and fi If there are some indication	c environment(chronic) ser ling and doing damage wh riction for container. Is of hazard in transporting	en the container loading

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

Р	hysical hazards	
	Flammable liquids	Not classified
	Pyrophoric liquids	Not classified
	Self-heating mixtures	Not classified
	Corrosive to metals	Not classified
н	ealth 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	Classification not possible
	Carcinogenicity	Classification not possible
	Reproductive toxicity	Classification not possible
	Specific target organ toxicity (Singel exposure)	Classification not possible
	Specific target organ toxicity(Repeated exposure)	Classification not possible
	Aspiration hazard	Classification not possible
E	nvironmental hazards	
	Hazardous to the aquatic environment(acute)	Not classified
	Hazardous to the aquatic environment(chronic)	Not classified
GHS	label elements	
	intermente au Ormahal	

Pictograms or Symbol

Exclamation mark



- 1 -

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	—
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

Respiratory protection, and other suitable protective equipme

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 c	Administrative levels	
	The Japan Society for Occupational Health		Ministry of Health, Labour and Welfare(JAPAN)
Glycerol	Not established	10mg/m3 (mist, TWA, 2009)	Not established

Equipment measures

Put up local exhaust ventilation.Use explosion-proof electrical/ventilating/lighting.

Take precautionary measures against static discharge.

Put up emergency eyewash and shower in case of storage or handling about this product.

Protection

Respiratory protection

If necessary use suitable respiratory protection.

Hand protection

Use suitable protective gloves.

Eye protection

Use suitable eye protection.

Skin/body protection

If necessary use suitable face protection.

Hygiene measures

Do not eat ,drink or smoke when using this product. Wash thoroughly after handling.

9.Physical and chemical properties

Appearance	Coloring Liquid
Odour	Peculiar odour
рН	5.0-7.5
Melting point / Coagulating point	No data available
Boiling point	Over 100°C

Flack naint	Ne dete evell	.hl.	
Flash point	No data availa		
Explosive limit UEL Explosive limit LEL	L No data available No data available No data available No data available No data available		
Vapour pressure			
Vapour density			
Specific gravity Water solubility			
Partition coefficient n-octanol/water		data available data available	
Ignition point	No data availa		
Decomposition point	No data availa No data availa		
10. Stability and reactivity			
Chemical stability	This product	s stable in normal condition.	
Materials to Avoid No data available		able	
Conditions to avoid	No data availa	able	
Incompatible materials			
Hazardous decomposition products	No data availa	able	
Skin corrosion / irritation Serious eye damage / eye irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity(Singel Specific target organ toxicity(Repea Aspiration hazard		Category 3 Category 2 Classification not possible / Category 1 Classification not possible Classification not possible Classification not possible Classification not possible Classification not possible Classification not possible	
12. Ecological information Hazardous to the aquatic environmen Hazardous to the aquatic environmen		Not classified Not classified	
Degradability		No data is available	
		No data is available	
Bioaccumulative potential			

. 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

	※ 1	※ 2	※ 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

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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