# Safety Data Sheet

Product name : Ink for MILDLINER(WKT7-MR·MP·MOR·MY·MG·MBG·MBL·MDB·MVI·MGR·MS MGO·ME·MMZ·MVE)				
Company	: ZEBRA CO., LTD.			
TEL:				
FAX:				
Emergency telephone				
Product use	: Infill Ink for writing implemen	t		
2. Hazards identificat	ion			
HS classification				
Physical hazards				
Flammable liquids		Not classified		
Pyrophoric liquids	140.0	Not classified Not classified		
Self-heating mixtu Corrosive to metal		Not classified		
Health hazards	5	Not classified		
Acute toxicity-Ora	51	Not classified		
Acute toxicity Der		Not classified		
Acute toxicity Der		Not classified		
Acute toxicity-Inh		Classification not possible		
Skin corrosion / in		Category 3		
Serious eye damag	e / eve irritation	Category 2		
Respiratory or skir		Classification not possible / Category 1		
Germ cell mutagen		Classification not possible		
Carcinogenicity	-	Classification not possible		
Reproductive toxic	ity	Classification not possible		
Specific target or	gan toxicity (Singel exposure)	Classification not possible		
Specific target or	gan toxicity(Repeated exposure)	Classification not possible		
Aspiration hazard		Classification not possible		
Environmental hazards	S			
Hazardous to the a	aquatic environment(acute)	Not classified		
Hazardous to the aquatic environment(chronic)		Not classified		
HS label elements				
Pictograms or Symbol	l			
Exclamation mark				
$\wedge$				

#### 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

 $\mbox{\cdot} If$  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
Amount	CAS No.	(Japanese Chemical Substances Control Act)
30-55%	Nondisclosure	Nondisclosure(registered)
15-25%	56-81-5	(2)-242
30-45%	7732-18-5	_
0-1%	Nondisclosure	Nondisclosure(registered)
	30–55% 15–25% 30–45%	30-55% Nondisclosure   15-25% 56-81-5   30-45% 7732-18-5

## 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

2/7

#### After ingestion:

Call a doctor/physician if you feel unwell.

#### Protection of the person who takes first aid

Nothing in particular.

## 5. Fire-fighting measures

#### Suitable Extinguishing media

Carbon dioxide, dry chemical powder, water fog, foam

#### Prohibition extinguishing media for safety reason

Water spray (straight)

#### Specific hazards

This product is not combustible.But evaporated residue is combustible.

May produce toxic fumes if burning.

#### Specific fire fighting procedures

If safe to do so, move undamaged containers from the fire area.

If can't move the container , cool containers and surrounding with spray water.

Cool containers with large quantities of water until well after extinguished the fire.

#### Special protective equipment for fire-fighters

Fire-fighting should be performed from the windward side.

Respiratory protection, and other suitable protective equipment

#### 6. Accidental release measures

#### Personal precautions

The pollution area should be established as off limits without concerned persons.

#### Protective equipment and emergency measure

Do not touch the leakage or its damaged container without suitable protection.

Do not walk through the leakage.

Keep sufficient ventilation if the area is indoor.

Remove ignition sources.

#### **Environmental precautions**

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

#### Methods for cleaning up

Use non-flammable absorbent materials, and put them in airtight container.

Dispose of absorbent in accordance with law.

#### Prevention of secondary disaster

Remove nearby ignition source and hot surface.

#### 7. Handling and storage

#### Handling

#### Technical measures

Do suitable equipment measures and use suitable protection that refer to

#### "8. Exposure control/ personal protection".

#### Local exhaust ventilation and general ventilation

- Use local exhaust ventilation and general ventilation that refer to
- "8. Exposure control/ personal protection".

#### Caution

When handling do not use high temperature articles, spark and fire.

Handle container with care, do not make it turn over, drop, give impact and drag.

Do not breathe, contact and swallow.

Maintain air concentrations below exposure limit using exhaust ventilation.

Do not eat, drink or smoke when using this product.

Wash hand throughly after handling.

Use only outdoors or in awell-ventilated area.

Avoid release to the environment.

#### Avoid contact

Refer to section 10 about stability and reactivity.

#### Storage

#### Incompatible materials

Refer to section 10 about stability and reactivity.

#### Storage condition

Store away from heat/sparks/open flames - No smoking

Store in a well ventilated place. Keep cool and container tightly closed.

Store locked up.

#### The Containers

Use the container that our company filled up when ship products

## 8. Exposure control/ personal protection

Exposure limit values

	Permissible concentration		Administrative levels	
Chemical name	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

Flash point	No data available
Explosive limit UEL	No data available
Explosive limit LEL	No data available
Vapour pressure	No data available
Vapour density	No data available
Specific gravity	No data available
Water solubility	No data available
Partition coefficient n-octanol/water	No data available
Ignition point	No data available
Decomposition point	No data available

## 10. Stability and reactivity

Chemical stability	Thi
Materials to Avoid	No
Conditions to avoid	No
Incompatible materials	No
Hazardous decomposition products	No

This product is stable in normal condition. No data available No data available No data available No data available

## 11. Toxicological information

Not classified
Not classified
Not classified
Classification not possible
Category 3
Category 2
Classification not possible/Category 1
Classification not possible

## 12. Ecological information

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 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)

INDG (manume 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, I Designated Chemical Substances

	<b>※</b> 1	Ж2	Ж3
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

X3 Except X1, 2 color

#### Fire Service Law

Article 2 paragraph (7) hazardous material Appended Table 1

Not applicable

#### Ship Safety Act

Regulations for the carriage and storage of dangerous goods in ship Article 2, 3

dangerous goods public notice Appended Table 1

Not applicable

**Civil Aviation Law** 

Ordinance for Enforcement Article 194 dangerous goods public notice Appended Table 1

Not applicable

## 16. Other information

In this sheet, the contents of ingredients and the value of physical and chemical properties are not guaranteed performance.

The information contained in this sheet is based on the data available at now.

But this shall not constitute a guarantee for any specific or classification.

Please be alert to handling this product because chemicals shall have unknown hazards.

This sheet may be revised when we get new information.

The information is assumed in the case of large-scale handling on business operations.

They cannot be always applicable to general use of writing instruments.

#### Reference

Globally Harmonized System of Classification and Labelling of Chemicals (GHS) second revised edition 2007 Recommendation of Occupational Exposure Limits(2009–2010) by The Japan Society for Occupational Health 2009 TLVs and BEIs by ACGIH