

# Safety Data Sheet

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

Product name : Ink for PAINT MARKER Silver: MOP-200MZ-S  
 Company : ZEBRA CO., LTD.  
 2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN  
 TEL: +81-3-3268-1193  
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 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

### Classification (EC 1272/2008)

#### Physical hazards

Flammable liquids	Category 3
Pyrophoric liquids	Not classified
Self-heating mixtures	Not classified
Corrosive to metals	Not classified

#### Health hazards

Acute toxicity-Oral	Category 4
Acute toxicity-Dermal	Not classified
Acute toxicity-Inhalation: vapour	Not classified
Acute toxicity-Inhalation: mist	Not classified
Skin corrosion / irritation	Category 2
Serious eye damage / eye irritation	Not classified
Respiratory or skin sensitization	Not classified / Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity (Single exposure)	Not classified
Specific target organ toxicity (Repeated exposure)	Category 2 (hearing organs)
Aspiration hazard	Not classified

#### Environmental hazards

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

### Label elements (EC 1272/2008)

#### Pictograms or Symbol

Exclamation mark

Flame

Health Hazard



**Signal Word**

Warning

**Hazard statement**

- H226 Flammable liquid and vapour  
 H315 Causes skin irritation  
 H332 Harmful if inhaled  
 H373 May cause damage to hearing organs through prolonged or repeated exposure

**Precautionary Statements****Prevention**

- P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking  
 P233 Keep container tightly closed  
 P240 Ground/bond container and receiving equipment  
 P241 Use explosion-proof electrical/ventilating/light equipment  
 P242 Use only non-sparking tools  
 P243 Take precautionary measures against static discharge  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray  
 P264 Wash hand thoroughly after handling  
 P271 Use only outdoors or in a well-ventilated area  
 P280 Wear protective gloves/protective clothing/eye protection/face protection

**Response**

- P302+P352 IF ON SKIN: Wash with soap and water  
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.  
 Rinse skin with water/shower  
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 P312 Call a POISON CENTER or doctor/physician if you feel unwell  
 P314 Get Medical advice/attention if you feel unwell  
 P332+P313 If skin irritation occurs: Get medical advice/attention  
 P362 Take off contaminated clothing and wash before reuse  
 P370+P378 In case of fire: Use ... for extinction

**Storage**

- P403+P235 Store in a well ventilated place. Keep cool

**Disposal**

- P501 Dispose of contents/container to in accordance with local government regulation.

**3. Composition/information on ingredients****Mixture****Component and Amount**

Component	Amount	CAS No.	EC No.	Hazard Statement and Class	
Xylene	20-45%	1330-20-7	215-535-7	H226	Flam. Liq. 3
				H332	Acute Tox. 4 *
				H312	Acute Tox. 4 *
				H315	Skin Irrit. 2
Ethylbenzene	35-60%	100-41-4	202-849-4	H225	Flam. Liq. 2
				H304	Asp. Tox. 1
				H332	Acute Tox. 4 *
				H373 (hearing organs)	STOT RE 2
Toluene	1-5%	110-54-3	203-777-6	H225	Flam. Liq. 2
				H361d ***	Repr. 2
				H304	Asp. Tox. 1

				H373 **	STOT RE 2 *
				H315	Skin Irrit. 2
				H336	STOT SE 3
Aluminium powder	5-10%	231-072-3	7429-90-5	H261	Water-react. 2
				H250	Pyr. Sol. 1
Resins	5-10%	Nondisclosure	Nondisclosure	All not required	
Additives	0-1%	Nondisclosure	Nondisclosure	All not required	

\* See (EC)No 1272/2008 Annex VI Section 1.2.1.

\*\* See (EC)No 1272/2008 Annex VI Section 1.2.2.

\*\*\* See (EC)No 1272/2008 Annex VI Section 1.2.3

#### 4. First-aid measures

##### After inhalation:

Call a doctor/physician if you feel unwell.

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

##### After skin contact:

Wash with soap and water

If skin irritation occurs: Get medical advice/attention

Call a doctor/physician if you feel unwell.

Take off contaminated clothing and wash before reuse

##### After eye contact:

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

Flammable. Will be easily ignited by heat, sparks or flames

May produce toxic fumes if burning.

##### Specific fire fighting procedures

Spray water if have no effect on extinguishing fire because of very low flash point.

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

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

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

##### Special protective equipment for fire-fighters

Fire-fighting should be performed from the windward side.

Respiratory protection, and other suitable protective equipment

## 6. Accidental release measures

### Personal precautions

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

### Protective equipment and emergency measure

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

Do not walk through the leakage.

Keep sufficient ventilation if the area is indoor.

Remove ignition sources.

### Environmental precautions

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

### Methods for cleaning up

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

Dispose of absorbent in accordance with law.

### Prevention of secondary disaster

Remove nearby ignition source and hot surface.

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

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## 7. Handling and storage

### Handling

#### Technical measures

Do suitable equipment measures and use suitable protection that refer to "8. Exposure control/ personal protection".

#### Local exhaust ventilation and general ventilation

Use local exhaust ventilation and general ventilation that refer to

"8. Exposure control/ personal protection".

#### Caution

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

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

Do not breathe, contact and swallow.

Maintain air concentrations below exposure limit using exhaust ventilation.

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

Wash hand thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Avoid release to the environment.

#### Avoid contact

Refer to section 10 about stability and reactivity.

### Storage

#### Incompatible materials

Refer to section 10 about stability and reactivity.

#### Storage condition

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

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

Store locked up.

#### The Containers

Use the container that our company filled up when ship products

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## 8. Exposure control/ personal protection

### Exposure limit values

Chemical name	EU-OEL(2006/15/EC)	The Japan Society for Occupational Health	ACGIH TLV-TWA
Xylene	50ppm	50ppm	100ppm
Ethylbenzene	100ppm	50ppm	100ppm
Toluene	50ppm	50ppm	200ppm

### Equipment measures

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

Take precautionary measures against static discharge.

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

### Protection

#### Respiratory protection

Use suitable respiratory protection.

#### Hand protection

Use suitable protective gloves.

#### Eye protection

Use suitable eye protection.

#### Skin/body protection

Use suitable face protection.

#### Hygiene measures

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

Wash thoroughly after handling.

## 9. Physical and chemical properties

Appearance	Silver Liquid
Odour	Peculiar odour
pH	No data available
Melting point / Coagulating point	No data available
Boiling point	120°C
Flash point	24°C
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	This product is stable in normal condition.
Materials to Avoid	Strong oxidizing agent
Conditions to avoid	High temperature
Incompatible materials	Strong oxidizing agent
Hazardous decomposition products	Nothing in particular.

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**11. Toxicological information**

Acute toxicity-Oral	Category 4
Acute toxicity-Dermal	Not classified
Acute toxicity-Inhalation: vapour	Not classified
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Aspiration hazard	Not classified

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**12. Ecological information**

Hazardous to the aquatic environment(acute)	Not classified
Hazardous to the aquatic environment(chronic)	Not classified
Degradability	No data is available
Bioaccumulative potential	No data is available
Mobility in soil	No data is available

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**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.

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**14. Transport information**

The contents are as follows when transport only ink

**International regulation****IMDG (maritime transport)**

UN No.	1993
Class	3
Packing Group	III
Marine Pollutant	No

**ICAO/IATA (air transport)**

UN No.	1993
Class	3
Packing Group	III

### **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.

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## **15. Regulatory information**

Follow all regulation in your country.

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## **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