

# Safety Data Sheet

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

Product name : Ink for PAINT MARKER Pink: MOP-200MZ-P  
Company : ZEBRA CO., LTD.  
2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN  
TEL: +81-3-3268-1193  
FAX: +81-3-3268-1197  
Emergency telephone : +81-3-3268-1193  
This phone number is available only during office hours: 9 a.m. to half past 5 p.m.  
(Japan time)  
Product use : Infill Ink for writing implement

## 2. Hazards identification

### GHS classification

#### Physical hazards

Flammable liquids	Category 2
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	Category 4
Acute toxicity-Inhalation: mist	Classification not possible
Skin corrosion / irritation	Category 2
Serious eye damage / eye irritation	Category 1
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	Classification not possible

#### Environmental hazards

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

### GHS label elements

#### Pictograms or Symbol

Flame



Health Hazard



Exclamation mark



Corrosion



**Signal Word**

Danger

**Hazard statement**

- H225 Highly flammable liquid and vapour  
 H332 Harmful if inhaled  
 H315 Causes skin irritation  
 H318 Causes serious eye damage  
 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  
 P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes.  
 Remove contact lenses if present and easy to do. Continue rinsing  
 P310 Immediately call a POISON CENTER or doctor/physician  
 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 Dry chemical, Foam CO2 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.	Reference Number in Gazetted List in Japan (Japanese Chemical Substances Control Act)		
Xylene	10–20%	1330–20–7	215–535–7	H226	Flam. Liq. 3
				H332	Acute Tox. 4 *
				H312	Acute Tox. 4 *
				H315	Skin Irrit. 2
Ethylbenzene	10–20%	100–41–4	202–849–4	H225	Flam. Liq. 2
				H304	Asp. Tox. 1

				H332	Acute Tox. 4 *
				H373 (hearing organs)	STOT RE 2
Methyl isobutyl ketone 5-10%	108-10-1	203-550-1	H225	Flam. Liq. 2	
			H332	Acute Tox. 4 *	
			H319	Eye Irrit. 2	
			H335	STOT SE 3	
2-Butoxyethanol 1-5%	111-76-2	203-905-0	H332	Acute Tox. 4 *	
			H312	Acute Tox. 4 *	
			H302	Acute Tox. 4 *	
			H319	Eye Irrit. 2	
			H315	Skin Irrit. 2	
n-Butanol 1-5%	71-36-3	200-751-6	H226	Flam. Liq. 3	
			H302	Acute Tox. 4 *	
			H335	STOT SE 3	
			H315	Skin Irrit. 2	
			H318	Eye Dam. 1	
			H336	STOT SE 3	
Methanol 0-1%	67-56-1	200-659-6	H225	Flam. Liq. 2	
			H331	Acute Tox. 3 *	
			H311	Acute Tox. 3 *	
			H301	Acute Tox. 3 *	
			H370 **	STOT SE 1	
Pigments & Dyes 30-35%	Nondisclosure	Nondisclosure	All not required		
Resins 20-25%	Nondisclosure	Nondisclosure	All not required		
Additives 1-5%	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.

#### 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

Take off contaminated clothing and wash before reuse

Call a doctor/physician if you feel unwell.

##### After eye contact:

Immediately call a POISON CENTER or doctor/physician

Rinse continuously with water for several minutes.

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

##### 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**

Highly flammable. Will be easily ignited by heat, sparks or flames

**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

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**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

**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
Methyl isobutyl ketone	20ppm	50ppm	20ppm
2-Butoxyethanol	20ppm	Not established	20ppm
n-Butanol	Not established	Max 50ppm	100ppm
Methanol	200ppm	200ppm	200ppm
Titanium oxide	Not established	0.3mg/m3	10mg/m3

**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**

<b>Appearance</b>	Pink Liquid
<b>Odour</b>	Peculiar odour
<b>pH</b>	No data available
<b>Melting point / Coagulating point</b>	No data available
<b>Boiling point</b>	120°C
<b>Flash point</b>	22.5°C
<b>Explosive limit UEL</b>	No data available
<b>Explosive limit LEL</b>	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.

## 11. Toxicological information

Acute toxicity–Oral	Not classified
Acute toxicity–Dermal	Not classified
Acute toxicity–Inhalation : vapour	Category 4
Acute toxicity–Inhalation : mist	Classification not possible
Skin corrosion / irritation	Category 2
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Specific target organ toxicity(Single exposure)	Not classified
Specific target organ toxicity(Repeated exposure)	Category 2 (hearing organs)
Aspiration hazard	Classification not possible

## 12. Ecological information

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

## 13. Disposal considerations

Waste 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.	1993
Class	3
Packing Group	II
Marine Pollutant	No

#### ICAO/IATA (air transport)

UN No.	1993
Class	3
Packing Group	II

### 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