

# Safety Data Sheet

Date of issue: 2009-12-18

Revision Date: 2020-02-28

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

Product name : Ink for PAINT MARKER White: MOP-200MZ-W  
 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 3
Skin corrosion / irritation	Category 2
Serious eye damage / eye irritation	Category 2A
Respiratory or skin sensitization	Classification not possible / Classification not possible
Germ cell mutagenicity	Not classified
Carcinogenicity	Category 2
Reproductive toxicity	Category 1B
Specific target organ toxicity (Single exposure)	Category 1 (respiratory organs, liver, nerve center, kidney) Category 2 (blood system)
Specific target organ toxicity (Repeated exposure)	Category 1 (respiratory organs, nervous system) Category 2 (nerve center, blood system, acoustic system)
Aspiration hazard	Category 1

#### Environmental hazards

Hazardous to the aquatic environment (acute)	Category 2
Hazardous to the aquatic environment (chronic)	Category 3

### GHS label elements

#### Pictograms or Symbol

Flame



Skull and crossbones Health Hazard



**Signal Word**

Danger

**Hazard statement**

- Highly flammable liquid and vapour
- May be fatal if swallowed and enters airways
- Causes skin irritation
- Causes serious eye irritation
- Toxic if inhaled
- Suspected of causing cancer
- May damage fertility or the unborn child
- Causes damage to organs (respiratory organs, liver, nerve center, kidney)
- May cause damage to organs (blood system)
- Causes damage to organs through prolonged or repeated exposure
- May cause damage to organs through prolonged or repeated exposure
- Toxic to aquatic life
- Harmful to aquatic life with long lasting effects

**Precautionary Statements****Prevention**

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Keep away from heat/sparks/open flames/hot surfaces – No smoking
- Keep container tightly closed
- Ground/bond container and receiving equipment
- Use explosion-proof electrical/ventilating/light/equipment
- Use only non-sparking tools
- Take precautionary measures against static discharge
- Do not breathe dust/vapours
- Avoid breathing dust/vapours
- Wash thoroughly after handling
- Do not eat, drink or smoke when using this product
- Use only outdoors or in a well-ventilated area
- Avoid release to the environment
- Wear protective gloves/protective clothing/eye protection/face protection

**Response**

- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.  
Rinse skin with water/shower
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- 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
- Call a POISON CENTER or doctor/physician
- Get Medical advice/attention if you feel unwell
- Do NOT induce vomiting
- If skin irritation occurs: Get medical advice/attention
- If eye irritation persists : Get medical advice/attention
- Take off contaminated clothing and wash it before reuse.
- In case of fire: Use Misty water, Dry chemical, carbon dioxide, Alcohol-resistant fire extinguisher for extinction

**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**

Component	Amount	CAS No.	Reference Number in Gazetted List in Japan (Japanese Chemical Substances Control Act)
Xylene	10-20%	1330-20-7	(3)-3
Ethylbenzene	10-20%	100-41-4	(3)-28
Methyl isobutyl ketone	5-10%	108-10-1	(2)-542
Pigments	35-40%	Nondisclosure	Nondisclosure
Resins	20-25%	Nondisclosure	Nondisclosure
Additives	0-1%	Nondisclosure	Nondisclosure

**4. First-aid measures****After inhalation:**

- Call a POISON CENTER or doctor/physician
- 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 POISON CENTER or 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:**

- Immediately call a POISON CENTER or doctor/physician
- Call a POISON CENTER or doctor/physician if you feel unwell
- Do NOT induce vomiting

**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.
- 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)

---

**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	Permissible concentration		Administrative levels
	The Japan Society for Occupational Health	ACGIH TLV-TWA	Ministry of Health, Labour and Welfare(JAPAN)
Xylene	50ppm	100ppm (2017)	50ppm (2016)
Ethylbenzene	50ppm	20ppm (2017)	50ppm (2016)
Methyl isobutyl ketone	50ppm	20ppm (2017)	50ppm (2016)

### 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	White Liquid
Odour	Peculiar odour
pH	No data available
Melting point / Coagulating point	No data available
Boiling point	120°C
Flash point	22.5°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

<b>Conditions to avoid</b>	High temperature
<b>Incompatible materials</b>	Strong oxidizing agent
<b>Hazardous decomposition products</b>	Nothing in particular.

**11. Toxicological information**

<b>Acute toxicity-Oral</b>	Not classified
<b>Acute toxicity-Dermal</b>	Not classified
<b>Acute toxicity-Inhalation: vapour</b>	Category 3
<b>Skin corrosion / irritation</b>	Category 2
<b>Serious eye damage / eye irritation</b>	Category 2A
<b>Respiratory or skin sensitization</b>	Classification not possible / Classification not possible
<b>Germ cell mutagenicity</b>	Not classified
<b>Carcinogenicity</b>	Category 2
<b>Reproductive toxicity</b>	Category 1B
<b>Specific target organ toxicity(Singel exposure)</b>	Category 1 (respiratory organs,liver,nerve center,kindney) Category 2 (blood system)
<b>Specific target organ toxicity(Repeated exposure)</b>	Category 1 (respiratory organs,nervous system) Category 2 (nerve center,blood system,acoustic system)
<b>Aspiration hazard</b>	Category 1

**12. Ecological information**

<b>Hazardous to the aquatic environment(acute)</b>	Category 2
<b>Hazardous to the aquatic environment(chronic)</b>	Category 3
<b>Degradability</b>	No data is available
<b>Bioaccumulative potential</b>	No data is available
<b>Mobility in soil</b>	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.	1992
Class	3(6.1)
Packing Group	II
Marine Pollutant	No

---

**ICAO/IATA (air transport)**

---

UN No.	1992
Class	3 (6.1)
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.

---

**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.

**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