

# Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) and (EC) No.1272/2008 (CLP)

Version CLP-1.0  
Date of issue :2017-08-01  
Revision Date:

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

### 1.1- Product identifier

Product name : Ink for PAINT MARKER Silver: MOP-200MZ-S

### 1.2 – Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/mixture : Ink for writing implement
- Recommended restrictions on use : No information available
- Uses Advised Against : No information available

### 1.3 – Details of the supplier of the SDS

- Impoter : ZEBRA PEN UK LT German Branch:  
Habichtweg 1; 41468 Neuss; Germany
- TEL : +49-2131-178-2900
- FAX : +49-2131-178-2901
- Manufacture : ZEBRA CO., LTD.  
2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN
- TEL : +81-3-3268-1193
- FAX : +81-3-3268-1197

### 1.4 – Emergency telephone number

- Impoter : +49-2131-178-2900
- 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)

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

According to (EC) No.1272/2008 (CLP)

#### 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	Not classified
Acute toxicity-Dermal	Not classified
Acute toxicity-Inhalation:vapour	Category 4
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 (Singel exposure)	Not classified
Specific target organ toxicity(Repeated exposure)	Category 2
Aspiration hazard	Category 1

#### Environmental hazards

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



					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	STOT RE 2
Toluene	1-5%	108-88-3	203-625-9		H225	Flam. Liq. 2
					H315	Skin Irrit. 2
					H304	Asp. Tox. 1
					H336	STOT SE 3
					H373 **	STOT RE 2 *
					H361d ***	Repr. 2
Pigments	5-10%	Nondisclosure	Nondisclosure	— ****		
Resins	5-10%	Nondisclosure	Nondisclosure	— ****		
Additives	0-1%	Nondisclosure	Nondisclosure	— ****		

\* 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.

\*\*\*\* Exempt from REACH Registry.

#### 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:

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:

Do NOT induce vomiting

Immediately call a POISON CENTER or doctor/physician

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

There is no specific and immediate 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

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

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

**6.4 Reference to other sections**

Refer to section 8 and 13.

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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 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.

**7.2 Conditions for safe storage, including incompatibilities****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	EU-OEL (2006/15/EC, 2009/161/EU)		Germany TRGS900	UK. EH40 Workplace Exposure Limits (WELS)	
	Eight hours	Short- term		Long-term exposure limit	Short-term exposure limit
Xylene	50 ppm 221 mg/m <sup>3</sup>	100 ppm 442 mg/m <sup>3</sup>	100 ml/m <sup>3</sup> (ppm) 440 mg/m <sup>3</sup>	50 ppm 220 mg/m <sup>3</sup>	100 ppm 441 mg/m <sup>3</sup>
Ethylbenzene	100 ppm 442 mg/m <sup>3</sup>	200 ppm 884 mg/m <sup>3</sup>	20 ml/m <sup>3</sup> (ppm) 88 mg/m <sup>3</sup>	100 ppm 441 mg/m <sup>3</sup>	125 ppm 552 mg/m <sup>3</sup>
Toluene	–	–	50 ml/m <sup>3</sup> (ppm) 190 mg/m <sup>3</sup>	50 ppm 191 mg/m <sup>3</sup>	100 ppm 384 mg/m <sup>3</sup>

**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**

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>	Silver Liquid
<b>Odour</b>	Peculiar odour
<b>Odour threshold</b>	No data available
<b>pH</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability</b>	No data available
<b>Melting point / Coagulating point</b>	No data available
<b>Boiling point</b>	120°C
<b>Flash point</b>	24°C
<b>Explosive limit UEL</b>	No data available
<b>Explosive limit LEL</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	No data available
<b>Relative density</b>	0.917(40°C)

<b>Water solubility</b>	Insoluble
<b>Partition coefficient n-octanol/water</b>	No data available
<b>Ignition point</b>	No data available
<b>Decomposition point</b>	No data available
<b>Viscosity</b>	7.7 mPa·s(40°C)
<b>Explosive properties</b>	No data available
<b>Oxidising properties</b>	No data available

**9.2 Other information**

No data available

**10. Stability and reactivity**

<b>10.1 Reactivity</b>	No hazardous reactions if stored and handled as prescribed.
<b>10.2 Chemical stability</b>	This product is stable in normal condition.
<b>10.3 Possibility of hazardous reaction</b>	No hazardous reactions known
<b>10.4 Conditions to avoid</b>	Strong oxidizing agent, High temperature
<b>10.5 Incompatible materials</b>	Strong oxidizing agent
<b>10.6 Hazardous decomposition products</b>	Nothing in particular.

**11. Toxicological information****11.1 Information on toxicological effects****•Specific Component information**

<b>Acute toxicity</b>	Oral : LD <sub>50</sub>	No information is available.
	Dermal : LD <sub>50</sub>	Xylene is Category 4
	Inhalation : LD <sub>50</sub>	Xylene, Ethylbenzene is Category 4
<b>Skin irritation</b>		Xylene, Toluene is Category 2.
<b>Eye irritation</b>		No information is available.
<b>Sensitization</b>		No information is available.
<b>Mutagenicity</b>		No information is available.
<b>Chromosome aberration</b>		No information is available.
<b>Carcinogenicity</b>		No information is available.
<b>Reproductive toxicity</b>		Toluene is Category 2.
<b>Sub-Acute toxicity</b>		May cause damage to hearing organs.(Ethyl benzene)
<b>Aspiration hazard</b>		Ethyl benzene is Category 1.

**12. Ecological information****12.1 Toxicity**

<b>Fish toxicity :</b>	No information is available.
<b>Acute toxicity to daphnia-magna :</b>	No information is available.
<b>Daphnia-magna Reproduction :</b>	No information is available.
<b>Algal inhibition :</b>	No information is available.
<b>Inhibitory effect assessment of activated sewage sludge :</b>	No information is available.
<b>12.2 Persistence and degradability :</b>	No information is available.
<b>12.3 Bioaccumulative potential :</b>	No information is available.
<b>12.4 Mobility of soil :</b>	No information is available.
<b>12.5 Results of PBT and vPvB assessment :</b>	No information is available.
<b>12.6 Other adverse effect :</b>	No information 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.	1993
Class	3
Packing Group	III
Marine Pollutant	No
Shipping name	Flammable Liquid n.o.s (Mixture of xylene, ethelbenzen and others.)

## ICAO/IATA (Air transport)

UN No.	1993
Class	3
Packing Group	III
Shipping name	Flammable Liquid n.o.s (Mixture of xylene, ethelbenzen and others.)

## ADR/RID (Land transport)

UN No.	1993
Class	3
Packing Group	III
Shipping name	Flammable Liquid n.o.s (Mixture of xylene, ethelbenzen and others.)

**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.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC code**

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****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This ink is not deplete the ozone layer, Seveso category.

**15.2 Chemical safety assessment**

Chemical safety assessment has not benn carried out.

**15.3 Futher information**

No information is available.

**16. Other information****16.1 Full text of H-Statements referred to under Sections 2 and 3**

H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H332	Harmful if inhaled

- H336 May cause drowsiness or dizziness
- H361 Suspected of damaging fertility or the unborn child
- H373 May cause damage to organs through prolonged or repeated exposure

## 16.2 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

2017/8/1 First version