Safety Data Sheet

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

Version CLP-1.0
Date of issue : 2017-09-20
Revision Date:

1. Identification of the mixture and of the company

1.1- Product identifier

Product name: Ink for PAINT MARKER Red:MOP-200MZ-R

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

- ・Importer : 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

- ・Importer : +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 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	Not classified
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
Aspiration hazard	Category 1

Environmental hazards

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

2.2 Label elements

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

Pictograms or Symbol

Flame Corrosion Exclamation mark Health Hazard

Signal Word

Danger

Hazard statement

H225 Highly flammable liquid and vapour
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H318 Causes serious eye damage
H332 Harmful if inhaled
H373 May cause damage to 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/vapors/spray
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P264 Wash hands thoroughly after handling
P271 Use only outdoors or in a well-ventilated area
P280 Wear protective gloves/protective clothing/eye protection/face protection

Response

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
P321 Specific treatment (see … on this label)
P331 Do NOT induce vomiting
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302+P352 IF ON SKIN: Wash with soap and water
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P332+P313 If skin irritation occurs: Get medical advice/attention
P337+P313 If eye irritation persists : Get medical advice/attention
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use … for extinction
P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes.
Remove contact lenses if present and easy to do . Continue rinsing
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
Rinse skin with water/shower

Storage

P403+P235 Store in a well ventilated place. Keep cool
P405 Store locked up

Disposal

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

Supplemental information

2.3 Other hazards

The ink does not have data whether a substance metting the critera for PBT or vPvB in accordance with EC 1907/2006 Annex Ⅲ.

3. Composition/information on ingredients

3.1 Substance : Not applicable

3.2 Mixture

Component and Amount

Component	Amount	CAS No.	EC No.	Reach No.	Hazard Statement and Class
Xylene	10-20%	1330-20-7	202-422-2	— ***	H226 Flam. Liq. 3 H332 Acute Tox. 4 * H315 Skin Irrit. 2
Ethyl benzene	10-20%	100-41-4	202-849-4	— ***	H225 Flam. Liq. 2 H332 Acute Tox. 4 * H373(hearing organs) STOT RE 2 H304 Asp. Tox 1
Methyl isobutyl ketone	5-10%	108-10-1	203-550-1	— ***	H225 Flam. Liq. 2 H332 Acute Tox. 4 * H319 Eye Irrit. 2
2-Butoxyethanol	1-5%	111-76-2	203-905-0	— ***	H332 Acute Tox. 4 * H319 Eye Irrit. 2 H315 Skin Irrit. 2
n-Butoxyethanol	1-5%	71-36-3	200-751-6	— ***	H226 Flam. Liq. 3 H315 Skin Irrit. 2 H318 Eye Dam. 1
Methanol	<1%	67-56-1	200-659-6	— ***	H225 Flam. Liq. 2 H331 Acute Tox. 3 *
Methyl methacrylate	<1%	80-62-6	201-297-1	— ***	H225 Flam. Liq. 2 H315 Skin Irrit. 2
Styrene	<1%	100-42-5	202-851-5	— ***	H226 Flam. Liq. 3 H332 Acute Tox.4 * H372 STOT RE 1 ** H315 Skin Irrit. 2 H319 Eye Irrit. 2
Pigments	30-35%	Nondisclosure	Nondisclosur	— ****	
Resins	20-25%	Nondisclosure	Nondisclosur	— ****	
Additives	<1%	Nondisclosure	Nondisclosur	— ****	

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

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

***: 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 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

Call a doctor/physician if you feel unwell

If skin irritation occurs: Get medical advice/attention

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:

Call a doctor/physician if you feel unwell

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

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

Therer is no specific and immedate 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

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.(引火性液体区分3以上)

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

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.

---

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 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.

7.2 Conditions for safe storage, including incompatabilities

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/m3	100 ppm 442 mg/m3	100 ml/m3(ppm) 440 mg/m3	50 ppm 220 mg/m3	100 ppm 441 mg/m3
Ethylbenzene	100 ppm 442 mg/m3	200 ppm 884 mg/m3	20 ml/m3(ppm) 88 mg/m3	100 ppm 441 mg/m3	125 ppm 552 mg/m3
Methyl isobutyl ketone	20 ppm 83 mg/m3	50 ppm 208 mg/m3	20 ml/m3(ppm) 83 mg/m3	50 ppm 208 mg/m3	100 ppm 416 mg/m3

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 glove.

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	Red Liquid
Odour	Peculiar odour
Odour threshold	No data available
pH	No data available

Evaporation rate	No data available
Flammability	No data available
Melting point / Coagulating point	No data available
Boiling point	120℃
Flash point	22.5℃
Explosive limit UEL	No data available
Explosive limit LEL	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	1.1957(40℃)
Water solubility	Insoluble
Partition coefficient n-octanol/water	No data available
Ignition point	No data available
Decomposition point	No data available
Viscosity	17.8mPa・s(40℃)
Explosive properties	No data available
Oxidising properties	No data available

9.2 Other information

No data available

---

10. Stability and reactivity

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

---

11. Toxicological information

11.1 Information on toxicological effects

・Specific Component information

Acute toxicity	Oral	:	LD_{50}	No information is available.
	Dermal	:	LD_{50}	No information is available.
	Inhalation	:	LD_{50}	Methanol is Category 3,Xylene ,Ethyl benzene , Methyl isobutyl ketone ,2-Butoxyethanolis Category 4.

Skin irritation	Xylene ,2-Butoxyethanol ,n-Butanol Category 2.
Eye irritation	n-Butanol Category 1. Methyl isobutyl ketone ,2-Butoxyethanol is Category 2.
Sensitization	No information is available.
Mutagenicity	No information is available.
Chromosome aberration	No information is available.
Carcinogenicity	No information is available.
Reproductive toxicity	No information is available.
Sub-Acute toxicity	May cause damage to hearing organs.(Ethyl benzene)
Asporation hazard	Ethyl benzene is Category 1.

---

12. Ecological information

12.1 Toxicity

Fish toxicity :	No information is available.
Acute toxicity to daphnia-magna :	No information is available.
Daphnia-magna Reproduction :	No information is available.
Algal inhibition :	No information is available.
Inhibitory effect assessment of activated sewage sludge :	No information is available.
12.2 Persistence and degradability :	No information is available.
12.3 Bioaccumulative potential :	No information is available.
12.4 Mobility of soil :	No information is available.
12.5 Results of PBT and vPvB assessment :	No information is available.
12.6 Other adverse effect :	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	Ⅱ
Marine Pollutant	No
Shipping name	Flammable Liquid,toxic, N.O.S(Mixture of xylene, ethylbenzene and others)

ICAO/IATA(Air transport)

UN No.	1993
Class	3
Packing Group	Ⅱ
Shipping name	Flammable Liquid,toxic, N.O.S(Mixture of xylene, ethylbenzene and others)

ADR/RID(Land transport)

UN No.	1993
Class	3
Packing Group	Ⅱ
Shipping name	Flammable Liquid,toxic, N.O.S(Mixture of xylene, ethylbenzene 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
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H318 Causes serious eye damage
H332 Harmful if inhaled
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

2017/9/20 First version