

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 meeting the criteria 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 | Nondisclosure | — **** | |
| Resins | 20-25% | Nondisclosure | Nondisclosure | — **** | |
| Additives | <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.

***: 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

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

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 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 ³ | 100 ppm 442 mg/m ³ | 100 ml/m ³ (ppm) 440 mg/m ³ | 50 ppm 220 mg/m ³ | 100 ppm 441 mg/m ³ |
| Ethylbenzene | 100 ppm 442 mg/m ³ | 200 ppm 884 mg/m ³ | 20 ml/m ³ (ppm) 88 mg/m ³ | 100 ppm 441 mg/m ³ | 125 ppm 552 mg/m ³ |
| Methyl isobutyl ketone | 20 ppm 83 mg/m ³ | 50 ppm 208 mg/m ³ | 20 ml/m ³ (ppm) 83 mg/m ³ | 50 ppm 208 mg/m ³ | 100 ppm 416 mg/m ³ |

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°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 |
| Relative density | 1.1957(40°C) |
| 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°C) |
| 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-Butoxyethanol is 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) | | |
| Aspiration 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 Further 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