EU SAFETY DATA SHEET

DATE: 14/Mar./2014
DATE OF REVISION: 9/Aug./2023

1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 – Product identifier

Product nar : Ink for PAINT MARKER Black: MOP-200MZ-BK

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 us : No information available
- Uses Advised Against : No information available

1.3 – Details of the suplier of the SDS

- Impoter : ZEBRA PEN (UK) Limited Magyarorszagi Ficktelepe
  Budapest,Punkosdfurdo utca 52.
  1039 Hungary
  TEL : +36 1 630 91 73
  FAX : +36 1 308 33 68
- Manufacture : ZEBRA CO., LTD.
  2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN
  TEL : +81-3-3268-1191
  FAX : +81-3-3268-1197

1.4 – Emergency telephone number

- Impoter : +36 1 630 91 73
- Manufacture : +81-3-3268-1191
  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:

2.1.1 CLASSIFICATION ACCORDING TO REGULATION (EC) NO 1272/2008 (CLP)

HAZARD CLASS AND CATEGORY: Flam. Liq. 2, Acute Tox. 4*, Skin Irrit. 2, Eye Dam. 1, Carc. 2, STOT RE 2, Asp. Tox. 1

2.2 LABEL ELEMENTS:

LABELLING ACCORDING TO REGULATION (EC) NO 1272/2008 (CLP)

HAZARD PICTOGRAMS:

SIGNAL WORD: Danger

HAZARD STATEMENTS:

H225 Highly flammable liquid and vapour
H332 Harmful if inhaled
H315 Causes skin irritation
H318 Causes serious eye damage.
H351 Suspected of causing cancer.
H373 May cause damage to organs <hearing organs > through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.

PRECAUTIONARY STATEMENTS:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
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/lighting 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 hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302 + P352 IF ON SKIN: Wash with plenty of 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 cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
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.
P331 Do not induce vomiting.
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 water spray, Dry chemical, Foam or CO2 for extinction.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

SUPPLEMENTAL HAZARD INFORMATION (EU) :

The following paragraph is added to Label according to Annex II to Directive (EC) No 1272/2008 when a substance classified as sensitizing contains equal to or greater than 0.1 % in this product.

EUH208 “Contains methyl methacrylate. May produce an allergic reaction.”

2.3 OTHER HAZARDS:

The product does not have data whether a substance meeting the criteria for PBT or vPvB in accordance with EC 1907/2006 Annex XIII.

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES: Not applicable.

3.2 MIXTURES:

CHEMICAL NAME	CAS RN®	EC No.	REACH No.	CONTENTS (%)
Xylene	1330-20-7	202-422-2	None.	15-25
Ethylbenzene	100-41-4	202-849-4		15-25
4-Methylpentan-2-one	108-10-1	203-550-1		10-15
2-Butoxyethanol	111-76-2	203-905-0		5-10
Butan-1-ol	71-36-3	200-751-6		5-10
Methyl methacrylate	80-62-6	201-297-1		0.29
Styrene	100-42-5	202-851-5		0.27
Dyes	Nondisclosure	Nondisclosure		5-10
Resin	Nondisclosure	Nondisclosure		20-25
Others	Nondisclosure	Nondisclosure		1-5

CHEMICAL NAME	HAZARD CLASS	HAZARD STATEMENT	SCL, M-factor, ATE
Xylene	Flam. Liq. 3 Acute Tox. 4* Acute Tox. 4* Skin Irrit. 2	H226 H332 H312 H315	*
Ethylbenzene	Flam. Liq. 2 Acute Tox. 4* STOT RE 2 Asp. Tox. 1	H225 H332 H373(hearing organs) H304	None
4-Methylpentan-2-one	Flam. Liq. 2 Carc.2 Acute Tox. 4* Eye Irrit. 2 STOT SE 3	H225 H351 H332 H319 H335	Inhalation: ATE = 11 mg/L (Vapours)
2-Butoxyethanol	Acute Tox. 3 Acute Tox. 4 Eye Irrit. 2 Skin Irrit. 2	H331 H302 H319 H315	inhalation: ATE = 3 mg/L (Vapours) oral: ATE=1 200 mg/kg bw
Butan-1-ol	Flam. Liq. 3 Acute Tox. 4* STOT SE 3 Skin Irrit. 2 Eye Dam. 1 STOT SE 3	H226 H302 H335 H315 H318 H336	None
Methyl methacrylate	Flam. Liq. 2 STOT SE 3 Skin Irrit. 2 Skin Sens. 1	H225 H335 H315 H317	None
Styrene	Flam. Liq. 3 Repr. 2 Acute Tox. 4* STOT RE 1 Skin Irrit. 2 Eye Irrit. 2	H226 H361d H332 H372 (hearing organs) H315 H319	*

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

4 FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES:

SKIN: Wash affected areas with water while removing contaminated clothing.
Get immediate medical attention.

EYES: Flush eyes with generous amounts of water for at least 15 minutes.
Get immediate medical attention.

INGESTION: If swallowed, immediate induce vomiting unless the victim is unconscious.
Dilute with water or milk and call a physician immediately.

INHALATION: Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

NOTE TO PHYSICIAN: No information is available.

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 FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

Suitable extinguishing media: Water spray, Dry chemical, Foam or CO_2.

Unsuitable extinguishing media: No information is available.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Hazardous combustion products: CO, CO_2, NO_x.

5.3 ADVICE FOR FIREFIGHTERS:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear.

Shut off all sources of ignition-heat, sparks, open flame.

6 ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Refer to section 8.

6.2 ENVIRONMENTAL PRECAUTIONS:

Do not discharge into sewage /drainage system.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

Sweep up, place in a bag, and hold for waste disposal. Consult an expert on the disposal of recovered material. Remove leaking containers to a safe place, if feasible.

6.4 REFERENCE TO OTHER SECTIONS:

Refer to section 8 and 13.

7 HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

Use only in the well-ventilated areas. Do not breathe dust. Keep container tightly.

Avoid contact with skin or eyes. Wash thoroughly after handling. Do not eat, drink and smoke, during work.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Keep containers upright and tightly closed when in no use.

Keep away from heat, steam pipe or sunlight. Store in a cool, dry, well-ventilated location.

7.3 SPECIFIC END USE(S):

Not applicable.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

	EU-OEL(2019/1831/EU)	ACGIH TLV	OSHA PEL
Xylene	50 ppm	20 ppm	100 ppm
Ethylbenzene	100 ppm	20 ppm	100 ppm
4-Methylpentan-2-one	20 ppm	20 ppm	100 ppm
2-Butoxyethanol	20 ppm	20 ppm	50 ppm
Butan-1-ol	Not determined.	20 ppm	100 ppm
Methyl methacrylate	50 ppm	50 ppm	100 ppm
Styrene	Not determined.	10 ppm	100 ppm

8.2 EXPOSURE CONTROLS:

8.2.1 APPROPRIATE ENGINEERING CONTROLS

Exhaust ventilation and process enclosure, to reduce air contamination and keep worker exposure below the applicable limits.

8.2.2 PERSONAL PROTECTION EQUIPMENT

8.2.2.1 EYE AND FACE PROTECTION: Chemical safety goggles.

8.2.2.2 SKIN/HAND PROTECTION: Gloves, Coveralls, Apron, Boots

8.2.2.3 RESPIRATORY PROTECTION: NIOSH/MSHA-Approved dust respirator.

8.2.3 ENVIRONMENTAL EXPOSURE CONTROLS

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL:	Liquid
COLOUR:	Black
ODOUR:	Characteristic odour.
MELTING POINT:	Not available.
BOILING POINT:	120 °C
FLAMMABILITY:	Flammable.
LOWER AND UPPER EXPLOSION LIMIT:	Not available.
FLASH POINT:	22.5 °C
AUTO-IGNITION TEMPERATURE:	Not available.
DECOMPOSITION TEMPERATURE:	Not available.
pH:	Not available.
(KINEMATIC) VISCOSITY:	9.1 mPa·s (40°C)
SOLUBILITY:	IN WATER: Insoluble.
	IN FAT: No information is available.
PARTITION COEFFICIENT:	Not available.
VAPOUR PRESSURE:	Not available.
RELATIVE DENSITY:	0.9092 (40°C)
RELATIVE VAPOUR DENSITY:	Not available.
PARTICLE CHARACTERISTICS:	Not available.

9.2 OTHER INFORMATION:

9.2.1 INFORMATION WITH REGARD TO PHYSICAL HAZARD CLASSES

EXPLOSIVE PROPERTIES: Not available.

OXIDIZING PROPERTIES: Not available.

9.2.2 OTHER SAFETY CHARACTERISTICS

Not available.

10 STABILITY AND REACTIVITY

10.1 REACTIVITY: No hazardous reactions if stored and handled as prescribed.

10.2 CHEMICAL STABILITY: This product is chemically stable if stored and handled as prescribed.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS: No hazardous reactions known.

10.4 CONDITIONS TO AVOID: Water, Humidity, Ignition sources, High temperatures

10.5 INCOMPATIBLE MATERIALS: Strong oxidizers, Strong bases

10.6 HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition products : CO, CO_2, NO_x.

11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	ORAL:	LD_{50}	2-Butoxyethanol, Butan-1-ol is Category 4.
	DERMAL:	LD_{50}	Xylene is Category 4.
	INHALATION:	LC_{50}	2-Butoxyethanol is Category 3.
			Xylene, Ethylbenzene, 4-Methylpentan-2-one is Category 4.

SKIN IRRITATION: Xylene, 2-Butoxyethanol, Butan-1-ol is Category 2.

EYE IRRITATION: Butan-1-ol is Category 1.

SKIN SENSITISATION: May cause an allergic skin reaction. (Methyl methacrylate)

GERM CELL MUTAGENICITY: No information is available.

CARCINOGENICITY: 4-Methylpentan-2-one is Category 2.

REPRODUCTIVE TOXICITY: Styrene is Category 2.

STOT-SINGLE EXPOSURE: No information is available.

STOT-REPEATED EXPOSURE: May cause damage to hearing organs. (Ethylbenzene)

ASPIRATION HAZARD: Ethylbenzene is Category 1.

12 ECOLOGICAL INFORMATION

12.1 TOXICITY:

FISH TOXICITY: No information is available.

ACUTE TOXICITY TO DAPHNIA-MAGNA: 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 IN SOIL: No information is available.

12.5 RESULTS OF PBT AND vPvB ASSESSMENT: No information is available.

12.6 ENDOCRINE DISRUPTING PROPERTIES: No information is available.

12.7 OTHER ADVERSE EFFECTS: No information is available.

13 DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS:

Burn in a chemical incinerator equipped with an afterburner.

14 TRANSPORT INFORMATION

14.1	UN NUMBER OR ID NUMBER:	1993
14.2	UN PROPER SHIPPING NAME:	FLAMMABLE LIQUID N.O.S. (Mixture of xylene, ethylbenzene and others.)
14.3	TRANSPORT HAZARD CLASS(ES):	3
14.4	PACKING GROUP:	II
14.5	ENVIRONMENTAL HAZARDS:	Not determined.
14.6	SPECIAL PRECAUTIONS FOR USER:	Not available.

15 REGULATORY INFORMATION

15.1	SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE:	This product is not deplete the ozone layer, Seveso category.
15.2	CHEMICAL SAFETY ASSESSMENT:	A chemical safety assessment has not been carried out.

16 OTHER INFORMATION

INDICATION OF CHANGES: 9/Aug./2023 According to Commission Regulation (EU) 2020/878 Annex II.

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