

Safety Data Sheet

Date of issue: 2010-12-10
Revision Date: 2021-01-05

1. Identification of the mixture and of the company

Product name : Ink for MCKEE EXTRA BOLD: MC-EB-450-BKT,BLT,RT

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 above product

2. Hazards identification

GHS classification

Details are given on the Annex I .

GHS label elements

Pictograms or Symbol

•BK ink

Flame



Exclamation mark



•BL ink

Flame



Exclamation mark



Health Hazard



Corrosion



•R ink

Flame



Exclamation mark



Health Hazard



Signal Word

•BK : Warning

•BL, R : Danger

Precautionary Statements

Prevention

Read label and Material Safety Data Sheet before use.
Keep away from heat/sparks/open flames/hot surfaces – No smoking
Ground/bond container and receiving equipment
Do not breathe dust/vapours.
Use explosion-proof electrical/ventilating/light
Take precautionary measures against static discharge
Use only non-sparking tools
Use only outdoors or in a well-ventilated area
Do not eat, drink or smoke when using this product
Wear protective gloves/eye protection.
Wash hand thoroughly after handling
Avoid release to the environment

Response

In case of fire: Use suitable method for extinction

Obtain special instructions before use

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

IF IN EYES: Immediately call a POISON CENTER or doctor/physician .

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

IF exposed or concerned: Get medical advice/attention

Get Medical advice/attention if you feel unwell

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

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

Details are given on the Annex II .

4. First-aid measures

After inhalation:

Call a POISON CENTER or doctor/physician if you feel unwell

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

After skin contact:

Call a POISON CENTER or doctor/physician if you feel unwell

If skin irritation occurs: Get medical advice/attention

After eye contact:

Immediately call a POISON CENTER or doctor/physician .

Rinse continuously with water for several minutes.

Remove contact lenses if present and easy to do . Continue rinsing

After ingestion:

Call a POISON CENTER or doctor/physician if you feel unwell

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

Special protective equipment for fire-fighters

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**

Details are given on the Annex II.

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	Coloring liquid
Odour	Peculiar odour
pH	No data available
Melting point / Coagulating point	No data available
Boiling point	91-117 °C
Flash point	25-33 °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	0.95-0.98
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
Conditions to avoid	High temperature
Incompatible materials	Strong oxidizing agent
Hazardous decomposition products	Nothing in particular.

11. Toxicological information

Details are given on the Annex I .

12. Ecological information

Hazardous to the aquatic environment(acute)	Classification not possible
Hazardous to the aquatic environment(chronic)	Classification not possible
Degradability	No data is available
Bioaccumulative potential	No data is available
Mobility in soil	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**○About Product**

This products is applied to Dangerous goods and comes under UN No.3175.

○About Ink

The contents are as follows when transport only ink

International regulation**IMDG (maritime transport)**

UN No.	1993
Class	3
Packing Group	III
Marine Pollutant	Not applicable

ICAO/IATA (air transport)

UN No.	1993
Class	3
Packing Group	III

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.

15. Regulatory information(Japan)

Details are given on the Annex II.

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.

○Country of manufacture : JAPAN

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

Annex I of Material Safety Data Sheet

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2. Hazards identification		BK	BL	R
Physical hazards				
Flammable liquids	Category 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pyrophoric liquids	Not classified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Self-heating mixtures	Classification not possible	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Corrosive to metals	Classification not possible	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Health hazards				
Acute toxicity-Oral	Not classified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acute toxicity-Dermal	Not classified	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Acute toxicity-Inhalation: vapour	Category 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Skin corrosion / irritation	Classification not possible	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Serious eye damage / eye irritation	Category 1		<input type="radio"/>	
	Category 2A	<input type="radio"/>		<input type="radio"/>
Respiratory or skin sensitization	Classification not possible	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Germ cell mutagenicity	Classification not possible	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Carcinogenicity	Category 1A		<input type="radio"/>	<input type="radio"/>
	Classification not possible	<input type="radio"/>		
Reproductive toxicity	Category 1A		<input type="radio"/>	<input type="radio"/>
	Classification not possible	<input type="radio"/>		
Specific target organ toxicity (Single exposure)	Category 2(nerve center, systemic toxicity)		<input type="radio"/>	<input type="radio"/>
	Category 3(narcotic effects, respiratory tract irritation)	<input type="radio"/>		
Specific target organ toxicity(Repeated exposure)	Category 2(liver, blood vessel)		<input type="radio"/>	<input type="radio"/>
	Classification not possible	<input type="radio"/>		
Aspiration hazard	Classification not possible	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Environmental hazards				
Hazardous to the aquatic environment(acute)	Classification not possible	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hazardous to the aquatic environment(chronic)	Classification not possible	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
GHS label elements				
Hazard statement				
Flammable liquid and vapour		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Causes serious eye damage			<input type="radio"/>	
Causes serious eye irritation		<input type="radio"/>		<input type="radio"/>
Harmful if inhaled		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
May cause cancer			<input type="radio"/>	<input type="radio"/>
May damage fertility or the unborn child			<input type="radio"/>	<input type="radio"/>
May cause damage to organs			<input type="radio"/>	<input type="radio"/>
May cause damage to organs through prolonged or repeated exposure			<input type="radio"/>	<input type="radio"/>
May cause respiratory irritation		<input type="radio"/>		
May cause drowsiness or dizziness		<input type="radio"/>		

Annex II of Material Safety Data Sheet

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3. Composition/information on ingredients

3. Composition/information on ingredients			BK	BL	R
Component and Amount	CAS No.	Reference Number in Gazetted List in Japan (Japanese Chemical Substances Control Act)			
1-Methoxy-2-propanol	107-98-2	(2)-404	70-80%	70-75%	70-75%
Ethanol	64-17-5	(2)-202		5-10%	5-10%
2-Propanol	67-63-0	(2)-207		1-5%	1-5%
Benzyl alcohol	100-51-6	(3)-1011	1-10%		
Methyl ethyl ketone	78-93-3	(2)-542		0-1%	0-1%
Resins		Nondisclosure	1-10%	15-20%	10-15%
Dyes		Nondisclosure	5-15%	1-5%	1-5%
Additives		Nondisclosure	1-10%		

8. Exposure control/ personal protection

Chemical name	Permissible concentration		Administrative levels
	The Japan Society for Occupational Health	ACGIH TLVs and BEIs	Ministry of Health, Labour and Welfare(JAPAN)
1-Methoxy-2-propanol	Not established	100 ppm(TWA, 2009), 150 ppm(STEL/C, 2009)	Not established
Ethanol	Not established	1000 ppm(STEL/C, 2009)	Not established
2-Propanol	400ppm, 980mg/m ³ (2019)	200 ppm(TWA, 2009), 400 ppm(STEL/C, 2009)	200 ppm
Benzyl alcohol	25mg/m ³ (2019)	Not established	Not established
Methyl ethyl ketone	200ppm, 590mg/m ³ (2019)	200 ppm(TWA, 2009), 300 ppm(STEL/C, 2009)	200 ppm

15. Regulatory information(Japan)

Industrial Safety and Health Act

Article 57-2 paragraph (1) "notifiable substances"

	BK	BL	R
1-Methoxy-2-propanol	○	○	○
Ethanol		○	○
2-Propanol		○	○
Copper Compounds		○	
Benzyl alcohol	○		

Order for Enforcement Article 1, 6, 9-3 Appended Table 1 item(IV)
dangerous substances ·inflammable substances

BK	BL	R
	○	

Poisonous and Deleterious Substances Control Law
Article 2 Appended Table 1 and 2

BK	BL	R
	○	

Act on confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management There of Article 2 Class I, II Designated Chemical Substances

BK	BL	R
	○	

Fire Service Law

Article 2 paragraph (7) hazardous material Appended Table 1

Category IV Class II, petroleum non water soluble

BK	BL	R
○	○	○

Ship Safety Act

Regulations for the carriage and storage of dangerous goods in ship Article 2, 3 dangerous goods public notice Appended Table 1

BK	BL	R
	○	

Civil Aviation Law

Ordinance for Enforcement Article 194 dangerous goods public notice Appended Table 1

BK	BL	R
	○	