Safety Data Sheet

according to Regulation (EC) No.1907/2006 (REACH), amended by COMMISSION REGULATION (EU) 2020/878

Product name : Red ink for bLen 0.7、bLen 3C　　Date of revision : 23/Apr/2025

Revision No. : 1

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Product name: Ink for following items

・bLen 0.7(R)

・bLen 3C(Red ink)

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

Relevant identified uses of the product: Infill Ink for writing implement

Uses advised against: Do not use for any purpose other than as product use.

1.3 Details of the supplier of the safety data sheet

・Impoter　:ZEBRA PEN EU KFT.
H-1039 Budapest, Pünkösdfürdő u. 52.HUNGARY

TEL　:+36-1-630-91-73

・Manufacture　:ZEBRA CO., LTD.
2-9 Higashigoken-cho, Shinjuku-ku, Tokyo 162-8562 JAPAN

TEL　:+81-3-3268-1191

E-mail　:kankyo@zebra.co.jp

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)

Section 2. Hazards identification

GHS classification and label elements of the product

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No.1272/2008 [CLP]

HEALTH HAZARDS

Serious eye damage/eye irritation: Category 1

Skin sensitization: Category 1

Specific target organ toxicity - single exposure: Category 3 (Respiratory tract irritation)

(Note) GHS classification without description: Not classified/Classification not possible

2.2 Label elements

Labelling according to Regulation (EC) No.1272/2008 [CLP]

Signal word: Danger

HAZARD STATEMENT

H318 Causes serious eye damage

H317 May cause an allergic skin reaction

H335 May cause respiratory irritation

PRECAUTIONARY STATEMENT

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear eye protection/face protection.

Response

P310 Immediately call a POISON CENTER/doctor/physician.
P312 Call a POISON CENTER/doctor/physician if you feel unwell.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/national regulation.

Section 3. Composition/information on ingredients

Mixture/Substance selection:

3.2 Mixture

Ingredient name	CAS No.	Content (%)
Classification according to REGULATION (EC) No.1272/2008 [CLP]		
2-Phenoxyethanol	122-99-6	25 - 30
Acute Tox. 4, H302; STOT SE 3, H335; Eye Dam. 1, H318		
Water	7732-18-5	15 - 20
-		
Benzyl alcohol	100-51-6	15 - 20
Acute Tox. 4, H302; Eye Irrit. 2, H319; Skin Sens. 1B, H317		
Glycerin	56-81-5	1 - 5
-		
Triethanolamine	102-71-6	0.1 - 1
-		
Diethanolamine	111-42-2	0.1 - 1
Acute Tox. 4 *, H302; STOT RE 2 *, H373 **; Skin Irrit. 2, H315; Eye Dam. 1, H318		

Section 4. First-aid measures

4.1 Descriptions of first-aid measures

General measures

Immediately call a POISON CENTER/doctor/physician.

IF INHALED

Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor/physician if you feel unwell.

IF ON SKIN (or hair)

Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor/physician.

IF SWALLOWED

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

Protective measures for first aid

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Carbon dioxide, dry chemical powder, water fog, foam

Unsuitable extinguishing media

Water spray (straight)

5.2 Specific hazards arising from the substance or mixture

May produce toxic fumes if burning.

5.3 Advice for firefighters

Specific fire-fighting measures

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 and precautions for fire-fighters

Fire-fighting should be performed from the windward side.

Respiratory protection, and other suitable protective equipment

Section 6. Accidental release measures

6.1 Personnel precautions, protective equipment and emergency procedures

The pollution area should be established as off limits without concerned persons.

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.

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

Use non-flammable absorbent materials, and put them in airtight container.

Dispose of absorbent in accordance with law.

Preventive measures for secondary accident

Remove nearby ignition source and hot surface.

6.4 Reference to other sections

Refer to section 8

Refer to section 13

Section 7. Handling and storage

7.1 Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

Avoid breathing dust/fume/gas/mist/vapors/spray.

Do suitable equipment measures and use suitable protection that refer to ″8. Exposure control/ personal protection″.

(Exhaust/ventilator)

Use local exhaust ventilation and general ventilation that refer to ″8. Exposure control/ personal protection″.

(Safety treatments)

Maintain air concentrations below exposure limit using exhaust ventilation.

Safety Measures

Use only outdoors or in a well-ventilated area.

Wear protective gloves.
Wear eye protection/face protection.
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.
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.

Any incompatibilities

Refer to section 10 about stability and reactivity.

Advice on general occupational hygiene

Contaminated work clothing should not be allowed out of the workplace.
Take off contaminated clothing and wash it before reuse.

7.2 Storage

Conditions for safe storage

Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Store away from heat/sparks/open flames – No smoking.

(Incompatibilities)

Refer to section 10 about stability and reactivity.

Container and packaging materials for safe handling

Use the container that our company filled up when ship products.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limit

ACGIH

(Triethanolamine)
TWA: 5mg/m3 (Eye & skin irr)
(Diethanolamine)
TWA: 1mg/m3(IFV) (Liver & kidney dam)

Notation

(Diethanolamine)
Skin

EU Occupational exposure limit values (Workplace Exposure limits) compliant to relevant EU Directive through 91/332/EEC to 2019/1831/EU

8.2 Exposure controls

Appropriate engineering controls

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..

Individual protection measures

Respiratory protection

Use suitable respiratory protection.

Hand protection

Use suitable protective glove.

Eye protection

Use suitable eye protection.

Skin and body protection

Use suitable face protection.

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid
Color: Dark Red
Odor: Characteristic odor
Odor threshold data is not available.
Melting point/Freezing point data is not available.
Boiling point or initial boiling point data is not available.
Boiling range data is not available.
Flammability (gases, liquids and solids) data is not available.
Lower and upper explosion limit/flammability limit data is not available.
Flash point data is not available.
Auto-ignition temperature data is not available.
Decomposition temperature data is not available.
pH data is not available.
Kinematic viscosity data is not available.
Solubility:
Solubility in water: No data available.
Solubility in solvent data is not available.
n-Octanol/water partition coefficient data is not available.
Vapor pressure data is not available.
Density and/or relative density data is not available.
Relative vapor density (Air=1) data is not available.
Particle characteristics data is not available.

Section 10. Stability and Reactivity

10.1 Reactivity
No data available.
10.2 Chemical stability
This product is stable in normal condition.
10.3 Possibility of hazardous reactions
Strong oxidzing agent.
10.4 Conditions to avoid
High temperature.
10.5 Incompatible materials
Strong oxidzing agent.
10.6 Hazardous decomposition products
No data available.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
[Table 3 of Annex VI to the CLP Regulations]
(2-Phenoxyethanol)
Category 4
(Benzyl alcohol)
Category 4
(Diethanolamine)
Category 4

Acute toxicity (Dermal)
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
[Table 3 of Annex VI to the CLP Regulations]
Acute toxicity (Inhalation)
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
[Table 3 of Annex VI to the CLP Regulations]
Irritant properties
Skin corrosion/irritation
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
[Table 3 of Annex VI to the CLP Regulations]
(Diethanolamine)
Category 2
Serious eye damage/irritation
Category 1, Causes serious eye damage
[Data for components of the product]
[Table 3 of Annex VI to the CLP Regulations]
(2-Phenoxyethanol)
Category 1
(Benzyl alcohol)
Category 2
(Diethanolamine)
Category 1
Sensitization
Respiratory sensitization
Classification not possible (Insufficient data available or no data available).
Skin sensitization
Category 1, May cause an allergic skin reaction
[Data for components of the product]
[Table 3 of Annex VI to the CLP Regulations]
(Benzyl alcohol)
Category 1B
Germ cell mutagenicity
Classification not possible (Insufficient data available or no data available).
Carcinogenicity
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
[IARC]
(Triethanolamine)
Group 3 : Not classifiable as to its carcinogenicity to humans
(Diethanolamine)
Group 2B : Possibly carcinogenic to humans
[ACGIH]
(Diethanolamine)
A3: Confirmed Animal Carcinogen with Unknown Relevance to Humans
Reproductive toxicity
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
[Table 3 of Annex VI to the CLP Regulations]
Specific target organ toxicity (STOT)
STOT-single exposure
Category 3, May cause respiratory irritation

[Data for components of the product]
[Table 3 of Annex VI to the CLP Regulations]
(2-Phenoxyethanol)
Category 3 (Respiratory tract irritation)
STOT-repeated exposure
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
[Table 3 of Annex VI to the CLP Regulations]
(Diethanolamine)
Category 2 (No target organ information)
Aspiration hazard
Classification not possible (Insufficient data available or no data available).
11.2 Information on other hazards
Endocrine disrupting properties
Classification not possible (Insufficient data available or no data available).

Section 12. Ecological Information

12.1 Toxicity
Aquatic toxicity
Classification not possible (Insufficient data available or no data available).
12.2 Persistence and degradability
[Data for components of the product]
(Benzyl alcohol)
Rapidly degradable (Degradation rate: 94% (by BOD)) (source: NITE)
(Triethanolamine)
Not rapidly degradable (Degradation rate: 0% (by BOD)) (source: NITE)
(Diethanolamine)
Rapidly degradable (Degradation rate: 51.4% (by BOD); 96.7% (by TOC); 100% (by HPLC))
(source: NITE)
12.3 Bioaccumulative potential
[Data for components of the product]
(2-Phenoxyethanol)
log Pow: 1.2 (source: ICSC, 2003)
(Benzyl alcohol)
log Pow: 1.1 (source: ICSC, 2000)
(Glycerin)
log Pow: −1.76 (source: ICSC, 2006)
(Triethanolamine)
log Pow: −2.3 (source: ICSC, 2003)
(Diethanolamine)
log Pow: −1.43 (source: NITE)
12.4 Mobility in soil
No data available.
12.5 Results of PBT and vPvB assessment
Classification not possible (Insufficient data available or no data available).
12.6 Endocrine disrupting properties
Classification not possible (Insufficient data available or no data available).
12.7 Other adverse effects
Results of PMT and vPvM assessment
Classification not possible (Insufficient data available or no data available).
Ozone depleting chemical data is not available.

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

13.1 Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.
Disposal must be made according to official regulations.
Avoid release to the environment.

Contaminated packing

Do not flush into the sewer.
Remove all contents when you dispose of empty containers.

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number : Not regulated
14.2 UN Proper Shipping Name : Not regulated
14.3 Class or division (Transport hazard class) : Not regulated
14.4 Packing group : Not regulated

14.5 Environmental hazards

Marine pollutants (yes/no) : no

14.6 Special precautions for user

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.

Section 15. Regulatory Information

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

Other information is not available.

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

15.2 Chemical safety assessment

Advice on safe handling for this product can be found in sections 7 and 8 of this SDS.

Section 16. Other information

GHS classification and labelling

Serious eye damage/eye irritation, Category 1: H318 Causes serious eye damage
Skin sensitization, Category 1: H317 May cause an allergic skin reaction
STOT – single exposure, Category 3, Respiratory tract irritation: H335 May cause respiratory irritation.

Full text of Hazard categories and Hazard statements referred to only section 3

Flam. Liq. 2, H225 – Flammable liquids, Category 2: H225 Highly flammable liquid and vapour
Flam. Liq. 3, H226 – Flammable liquids, Category 3: H226 Flammable liquid and vapour
Acute Tox. 3, H301 – Acute toxicity, Category 3: H301 Toxic if swallowed
Acute Tox. 4, H302 – Acute toxicity, Category 4: H302 Harmful if swallowed
Acute Tox. 3, H311 – Acute toxicity, Category 3: H311 Toxic in contact with skin
Skin Corr. 1A, H314 – Skin corrosion/irritation, Category 1A: H314 Causes severe skin burns and eye damage

Skin Corr. 1B, H314 – Skin corrosion/irritation, Category 1B: H314 Causes severe skin burns and eye damage
Skin Irrit. 2, H315 – Skin corrosion/irritation, Category 2: H315 Causes skin irritation
Skin Sens. 1B, H317 – Skin sensitization, Category 1B: H317 May cause an allergic skin reaction
Eye Irrit. 2, H319 – Serious eye damage/eye irritation, Category 2: H319 Causes serious eye irritation
Acute Tox. 3, H331 – Acute toxicity, Category 3: H331 Toxic if inhaled
STOT SE 3, H336 – STOT – single exposure, Category 3, Narcotic effects: H336 May cause drowsiness or dizziness.
Repr. 1B, H360D – Reproductive toxicity, Category 1B: H360D May damage the unborn child
STOT SE 1, H370 – STOT – single exposure, Category 1: H370 Causes damage to organs
STOT SE 2, H371 – STOT – single exposure, Category 2: H371 May cause damage to organs
STOT RE 2, H373 – STOT – Repeated exposure, Category 2: H373 May cause damage to organs through prolonged or repeated exposure

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN
Recommendations on the TRANSPORT OF DANGEROUS GOODS 23rd edit., 2023 UN
IMDG Code, 2024 Edition (Incorporating Amendment 42-24)
IATA Dangerous Goods Regulations (66th Edition) 2025
EU REGULATION (EC) No. 1272/2008 (CLP), amended by COMMISSION DELEGATED REGULATION (EU) 2023/1434
2024 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2025 TLVs and BEIs. (ACGIH)
Supplier's data/information

Abbreviations and acronyms

(IFV) – Inhalable Fraction and Vapor; dam – damage; irr – irritation; URT – upper respiratory tract

General Disclaimer

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.
The GHS classification data given here is based on current EU official data (Consolidated version of the CLP Regulation published in 01/12/2023 and Commission delegated regulation (EU) 2024/197 (ATP21)).