

Safety Data Sheet

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

Version CLP-1.0

Date of issue : 2021-02-24

Revision Date :

1. Identification of the mixture and of the company

1.1- Product identifier

Product name : Infilled ink about following items.

Ink for BE- α AX5 (Black)

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 LTD. HUNGARY BRANCH
1039 Budapest, Pünkösdfürdő u. 52. HUNGARY
- TEL : +36-1-630-9173
- FAX : +36-1-308-3368
- Manufacturer : 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
- Manufacturer : +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	Classification not possible
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	Not classified
Skin corrosion / irritation	Not classified
Serious eye damage / eye irritation	Not classified
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)	Not classified
Aspiration hazard	Classification not possible

Environmental hazards

Hazardous to the aquatic environment (acute)	Not classified
Hazardous to the aquatic environment (chronic)	Category 3

2.2 Label elements

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

Pictograms or Symbol

Signal Word

Hazard statement

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements**Prevention**

P273 Avoid release to the environment.

Response**Storage****Disposal**

P501 Dispose of contents/container to in 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		
Pigments	1 – 15%	Nondisclosure	Nondisclosure	— *			
Water	55 – 70%	7732-18-5	231-791-2	— *			
Glycerine	1 – 15%	56-81-5	200-289-5	— *			
Ethylene glycol	1 – 10%	107-21-1	203-473-3	— *	H302	Acute Tox. 4	**
1-Methyl-2-pyrrolidone	< 0.1%	872-50-4	212-828-1	— *	H315	Skin Irrit. 2	**
					H319	Eye Irrit. 2	**
					H360D	Repr. 1B	**
					H335	STOT SE 3	**
Methyl alcohol	< 0.1%	67-56-1	200-659-6	— *	H225	Flam. Liq. 2	**
					H331	Acute Tox. 3	**
					H370	STOT SE 1	**
					H301	Acute Tox. 3	**
					H311	Acute Tox. 3	**
2-octyl-2H -isothiazol-3-one	< 0.1%	26530-20-1	247-761-7	— *	H410	Aquatic Chronic	**
					H318	Eye Dam. 1	**
					H301	Acute Tox. 3	**
					H330	Acute Tox. 2	**

			H314	Skin Corr. 1	**
			H317	Skin Sens. 1A	**
Resins	0.1 – 5%	Nondisclosure	Nondisclosure — *		
Additives	1 – 5%	Nondisclosure	Nondisclosure — *		

* Exempt from REACH Registry.

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

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 POISON CENTER or doctor/physician if you feel unwell

After skin contact:

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

After eye contact:

IF IN EYES: 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 POISON CENTER or doctor/physician if you feel unwell.

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

Water spray (straight)

Prohibition extinguishing media for safety reason

Water spray (straight)

5.3 Advice for firefighters

Specific hazards

This product is not combustible. But evaporated residue is combustible.

May produce toxic fumes if burning.

Specific fire fighting procedures

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.

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
Glycerol	—	—	200mg/m ³	10mg/m ³	—
Ethylene glycol	25mg/m ³	104mg/m ³	26mg/m ³	52mg/m ³	104mg/m ³
1-Methyl-2-pyrrolidone	40mg/m ³	80mg/m ³	82mg/m ³	40mg/m ³	80mg/m ³
Methyl alcohol	260mg/m ³	—	130mg/m ³	266mg/m ³	333mg/m ³
2-octyl-2H-isothiazol-3-one	—	—	0.05mg/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**

If necessary use suitable respiratory protection.

Hand protection

Use suitable protective gloves.

Eye protection

Use suitable eye protection.

Skin/body protection

If necessary 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	Black 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	No data available
Flash point	No data available

Explosive limit UEL	No data available
Explosive limit LEL	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	This ink is soluble in water.
Partition coefficient n-octanol/water	No data available
Ignition point	No data available
Decomposition point	No data available
Viscosity	No data available
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	No data available
10.4 Conditions to avoid	No data available
10.5 Incompatible materials	No data available
10.6 Hazardous decomposition products	No data available

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	No information is available.
Skin irritation				No information is available.
Eye irritation				No information is available.
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				No information is available.
Aspiration hazard				No information is available.

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.	Not applicable
Class	—
Packing Group	—
Marine Pollutant	—
Shipping name	—

ICAO/IATA (Air transport)

UN No.	Not applicable
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Class	–
Packing Group	–
Shipping name	–

ADR/RID(Land transport)

UN No.	Not applicable
Class	–
Packing Group	–
Shipping name	–

14.5 Environmental hazards

Hazardous to the aquatic environment(acute)	Not classified
Hazardous to the aquatic environment(chronic)	Category 3

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 been 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**

H412 Harmful to aquatic life with long lasting effects.

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

2021/2/24 First version