



# ELECTRIC INK

## PRODUCT SAFETY DATA SHEET

In accordance with ANSI Z400.1-2004 and 29 CFR 1910

### GAMA ULTRA BLACK



#### 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

|  |   |                    |
|--|---|--------------------|
| <b>Products trade name:</b>            | Ultra Black, Raven Black, Gl sumi1, Yuu sumi2, Jin Sumi3, Rei sumi4, Makoto Sumi5, Meiyo sumi6, Emperor Black sumi7 |                    |
| <b>Product description:</b>            | Sterilized aqueous suspension of pigment.   |                    |
| <b>Indication:</b>                     | Mixture for use in tattoo or permanent make up  |                    |
| <b>Manufacturer name:</b>              | BELLE ARTI INDUSTRIA E COMERCIO LTDA  |                    |
| <b>Manufacturer address:</b>           | Av.Colonel Zacarias Borges de Araujo, 1200. 38064-700 – Uberaba   |                    |
| <b>Country:</b>                        | Brazil  |                    |
| <b>Responsible For European Sales:</b> | Electric Ink NTS Europe S.L – Ramblas 40/42 Barcelona – Spain   |                    |
| <b>AEMPS REGISTRATION:</b>             | 1443-PE   |                    |
| <b>Telephone:</b>                      | +34933437262  |                    |
| <b>Email:</b>                          | info@electricink.eu   | www.electricink.eu |

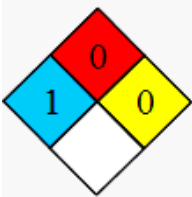
#### 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

This product is a mixture of substances listed below. The pigment of this mixture is free of arsenic, cadmium, chromium, cobalt, lead, manganese, mercury, molybdenum and nickel.

| Makings            | Cas number           | Oral LD <sub>50</sub> (mg/kg) <sup>#</sup> |
|--------------------|----------------------|--|
| Water              | 7732-18-5            | NE   |
| Pigment C.I. 77266 | 1333-86-4; 7440-44-0 | >5,000                                     |
| Propylene glycol   | 57-55-6              | 20.000                                     |
| Ethanol            | 64-17-5              | 12600                                      |
| Dispersant Polymer | NE                   | >2,000                                     |
| Polysiloxane       | NE                   | >2,000                                     |

NA: Not applicable, NE: Not established #: Literature test data. The explanation of the terms is in section 16.

#### 3 - HAZARDS IDENTIFICATION



**HAZARD OVERVIEW: Product Description:** This product is an aqueous suspension of pigments, sterilized by gamma rays, into polyethylene terephthalate (PE) vials.

**Health Hazards:** This product is safe when used as directed and with good hygiene practices. The primary health hazard presented by this product would be accidental ingestion and eyes irritation in case of exposure. **Physical Hazards:** This preparation is non-flammable; but thermal decomposition at high temperatures produces toxic gases like CO and nitrogen oxides (NO<sub>x</sub>).

This preparation is non-corrosive and normally non-reactive. **Environmental Hazards:** The accidental release of this product in large quantities may cause local harm to plants and animals.

**Pictogram:** Non-hazardous substances by GHS or by WHMIS.

#### Relevant routes of exposure

**Eyes Contact:** Cause slight eye irritation.

**Ingestion:** May cause stomach or intestinal irritation if swallowed.

**Inhalation:** No adverse effects by inhalation under typical conditions of use.

**Skin Absorption:** May cause allergic skin reactions in chemically sensitive individuals. There is no evidence of pigment absorption by the body through skin.

#### Prevention precautionary statement



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Do not use this product to paint near the eyes or over mucosal membranes.  
Before using, carefully read the product leaflet instructions included in the package.  
Only an experienced professional in a suitable environment must perform painting with this product.

#### 4 - FIRST AID MEASURES

##### General Information

If any adverse effect occurs, the person should receive medical attention. Show this MSDS to the doctor.

##### Eye Contact

If in eyes, rinse slowly and gently with clean water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. The individual must seek ophthalmologic evaluation.

##### Inhalation

Water base product of low volatility makes vapor inhalation unlikely. No dust liberation.

##### Ingestion

If swallowed, seek medical attention. Never give anything by mouth to an unconscious person.

##### Skin Contact

Though rare, sensitization can occur in sensitive individuals. If sensitization occurs, get medical attention.

#### 5 - FIRE-FIGHTING MEASURE

##### Flammability Classification

This water preparation is **not flammable**, but high temperatures thermal decomposition produces toxic gases. Upon decomposition, this product emits carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>).

**Flash point:** Not flammable.

**Method Used:** Not applicable.

**Lower Flammable Limit (LFL):** Not flammable.

**Upper Flammable Limit (UFL):** Not flammable.

**Auto Ignition temperature:** Not flammable.

##### Suitable extinguishing agents

To extinguish fire, use multi-purpose dry chemical, water spray or carbon dioxide. Do not use water when fire is close to an electricity source.

##### Protective equipment

Wear a self-contained breathing apparatus to avoid inhaling any products of combustion.

#### 6 - ACCIDENTAL RELEASE MEASURES

##### Leak and spill procedures

You must stop the source of leak or release, wear gloves as good hygiene practice.

It is not essential to use special protective clothing.

**If the small spill** is on the room floor, desk, or table, wipe off colored pigment traces with detergent solution and transfer the wipe paper into the disposal bag for appropriate disposal.

**If the spills are large**, wear goggles, rubber gloves and suitable body protection. Contain and adsorb spill with inert material, then place in suitable container for safe disposal. It is significant to prevent the transfer of the mixture spills to water streams or sewers.

**For waste disposal:** See section 13 of this MSDS document.



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## 7 - HANDLING AND STORAGE

### Handling Procedures and Equipment

As with all chemicals, it is important to follow good personal hygiene practices when handling this material. Use Personal Protective Equipment recommended in section 8 of this MSDS. Avoid contact with eyes.

### Storage Requirements

Store the product at ambient temperature in a dry and well-ventilated place, away from direct sunlight. Do not expose it to temperatures exceeding 50°C. Keep the vials closed and properly labeled when not in use.

## 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Occupational Exposure Limit(s)

**ACGIH TLV:** Not available.

**OSHA PEL:** Not available.

### Personal Protective Equipment (specific)

No specific protecting equipment. Avoid contact with eyes and wash hands with soap after handling.

### Eyes and face protection

Wear appropriate protective eyeglasses or chemical safety goggles.

### Skin protection

In workplace production, use safety glasses with side shields or goggles, wear protective gloves and clothing, according to good manufacturing practices.

## 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Characteristic colored suspension of pigment.

**Miscibility in Water:** Product is dispersible in water.

**Odor:** Odorless.

**Vapor pressure:** Not available.

**Flammability:** Not flammable.

**Flash point:** Not available.

**Freezing point:** < 4°C. Method: OECD Test Guideline 102

**Melting point:** Not available.

**Viscosity:** 2.5±0.5 mPa·s. Method: ASTM D445

**Initial boiling point:** > 212 °F (> 100 °C)

**Relative density:** 1.05±0.05. Method: ASTM D4052

Method: OECD Test Guideline 103

**Decomposition temperature:** Not available.

**pH:** 8.3±0.3 Method: ASTM E70

## 10 - STABILITY AND REACTIVITY

### Chemical Stability

The product is stable at ambient temperature during the validity period.

**Condition to avoid:** high temperatures.

### Hazardous Decomposition:

No decomposition if the product is stored at ambient temperature. Thermal decomposition can lead to the release of gases like carbon monoxide (CO), nitrogen oxides (NO<sub>x</sub>), carbon dioxide (CO<sub>2</sub>).

## 11 - TOXICOLOGICAL INFORMATION

### Genotoxicity/Mutagenicity

**Bacterial reverse mutation test:** Negative.



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**In vitro mammalian gene mutation tests:** Negative.

#### Cytotoxicity in vitro

**Biological Reactivity Test:** Negative

#### Acute Toxicity

**LD<sub>50</sub> (dermal):** Negative.

**Acute Dermal Irritation/Corrosion dermal:** Negative.

**LC<sub>50</sub> (inhalation):** Negative, product of low volatility.

**LD<sub>50</sub> (oral):** Negative.

#### Additional tests

**Quantification of aromatic amines:** Does not contain 3,3'-dichlorobenzidine (CAS: 91-94-1), o-toluidine (CAS: 95-53-4), 4-chloro-o-toluidine (CAS: 95-69-2), 2-naphthylamine (CAS: 91-59-8), with quantification limit of 0.1 mg / L.

**Quantification of heavy metals:** Do not contain arsenic, cadmium, lead, chromium, mercury or nickel metal, with quantitation limit of 0.01 mg / 100 g.

## 12 - ECOLOGICAL INFORMATION

### Environmental Hazards

None of the components of this product are considered hazardous for the environment. However, large release of this product can have a harmful or damaging effect on the environment according to 40 CFR 261.

## 13 - DISPOSAL CONSIDERATIONS

This product can be burned in a chemical incinerator equipped with a scrubber.

Never dispose the empty container unlawfully, consult the regional environment office.

Do not allow this material to drain into sewers and water supplies.

## 14 - TRANSPORT INFORMATION

THIS PRODUCT IS NOT DANGEROUS FOR TRANSPORT.

### Land Transport

This product is a "Non-Regulated Material" as described per U.S. DOT under 49 CFR 172.101.

### Air Transport

This product is a "Non-Regulated Material" as described per IATA (DGR).

### Marine transport

This product is a "Non-Regulated Material" as described per IMDG/IMO.

### European Union

This product is not classifiable as dangerous in agreement concerning to The International Carriage of Dangerous Goods by Road (ADR).

### Canada Transportation of Dangerous Goods Regulations

This product is not classifiable as dangerous goods per Transport Canada Regulations.

## 15 - REGULATORY INFORMATION

The classification of this product is in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by those regulations.

### General Information



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The ingredient (component) of this product is not hazardous within the following regulation or directives:

- ♦ NIOSH Pocket Guide to Chemical Hazard Data.
- ♦ Canadian Centre for Occupational Health and Safety- CCOHS.
- ♦ European Resolutions ResAP (2003)2 and ResAP (2008)1 on tattoos and permanent make-up.
- ♦ Danish survey on investigation of pigments in tattoo colors.
- ♦ Regulation EC-1272/2008 of the European Parliament and of the Council of 16 December 2008.
- ♦ Regulation 1907/2006 Annex XVII (REACH) of the European Parliament and the Council
- ♦ REGLAMENTO (UE) 2020/2081 DE LA COMISIÓN de 14 de diciembre de 2020
- ♦ Monographs of IARC – International Agency for Research on Cancer.
- ♦ Dangerous Substances Directive 67/548/EEC.
- ♦ Report on Carcinogens, 12th edition 2011, of National Toxicology Program from U.S. HHS.

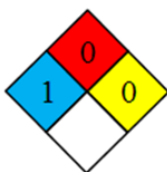
#### 16 - OTHER INFORMATION

##### Acronyms and references used in this MSDS

|  |  |
|--|--|
| <b>ANSI:</b> American National Standard for Hazardous Industrial Chemicals - Z400.1MSDS Preparation. | <b>ACGIH:</b> American Conference of Governmental Industrial Hygienists.                 |
| <b>CAS:</b> The Chemical Abstract Service Number.  | <b>CFR:</b> Code of Federal Regulations.   |
| <b>C.I.:</b> Color Index   | <b>DOT:</b> Department of Transportation.  |
| <b>GHS:</b> Globally Harmonized System of Classification and Labelling of Chemicals.                 | <b>HHS:</b> U.S. Department of Health and Human Services.                                |
| <b>IARC:</b> International Agency for Research on Cancer.  | <b>IATA:</b> International Air Transport Association.                                    |
| <b>LD<sub>50</sub>:</b> Lethal dose of 50 % in a group of test animals.                              | <b>mg/kg:</b> Milligram per kilogram.  |
| <b>MSDS:</b> Material Safety Data Sheet.   | <b>NFPA:</b> National Fire Protection Association.                                       |
| <b>NIOSH:</b> National Institute for Occupational Safety and Health of U.S. HHS.                     | <b>NPT:</b> National Toxicology Program of U.S. Department of Health and Human Services. |
| <b>OSHA:</b> Occupational Safety and Health Administration.  | <b>WHMIS:</b> Workplace Hazardous Materials Information System of Canada.                |

##### NFPA/WHMIS Ratings

Blue: Health Hazard  
Red: Flammability Hazard  
Yellow: Reactivity Hazard  
White: Special Hazard



0- Minimal  
1- Slight  
2- Moderate  
3- Serious  
4- Extreme

**Material Safety Data Sheet prepared by:** Professor Nelson Diniz Velasco.

Nelson Diniz Velasco received in 1989 his M.Sc. in Chemical Engineering from São Carlos Federal University - UFSCar, Brazil; and in 1994 his Ph.D. in Science from University of Poitiers, France. Dr. Nelson has been professor at Uberaba University (UNIUBE) in Brazil.