

WATERBASE INKS

1. IDENTIFICATION OF THE CHEMICAL SUBSTANCE AND SUPPLIER”

1.1 Product Identifier

Product name: Ink

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant identified uses: For inkjet printing.

Uses advised against: Consult the manufacturer.

1.3 Details of the supplier of the safety data sheet

Company name: POSTER AND PANEL SL

Company address: C/ Plans de la Sala 28, Pol. Ind. Plans de la Sala, 08650 Sallent (Barcelona)

Telephone: +34 938 372 565

Postal code: 08650

1.4 Emergency telephone number: +34 938 372 565

2. HAZARDS IDENTIFICATION

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2.1 Classification of the hazard according to GHS:

The product is not hazardous and is not classified as a dangerous substance.

2.2 Label elements

Hazard pictograms: None

Hazard statements: None

2.3 Hazard statements: None

2.4 Precautionary statements

2.4.1 Prevention: None

2.4.2 Response: None

2.4.3 Storage: None

2.4.4 Disposal: None

2.5 Description of hazards

2.5.1 Physical and chemical hazards: This product is typically used without risk.

2.5.2 Health hazards: None

2.5.3 Environmental hazards: Refer to Section 12 of the Safety Data Sheet (SDS).



3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance: ☐ Preparation (Mixture):

COMPONENT	Nº CAS	Nº CE	CONCENTRATION Percentage by weight %
Glycerin	56-81-5	200-289-5	15%
Titanium Dioxide	13463-67-7	215-280-1	5%
Pigment Black 7	1333-86-4	215-609-9	5%
Blue Pigment	147-14-8	205-685-1	5%
Quinacridone Pigment	1047-16-1	213-879-2	5%
Yellow Pigment	68516-73-4	217-176-6	5%
Water	7732-18-5	231-791-2	80%

4.FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Immediate medical attention is required. Show this Safety Data Sheet (SDS) to the attending physician.

Skin contact: Wash with plenty of water. Immediately remove contaminated clothing and shoes.

Eye contact: Rinse with running water or saline solution. Seek medical attention if necessary.

Inhalation: Move the person to fresh air. Keep airways open. Seek medical attention if feeling unwell.

Ingestion: Rinse mouth, induce vomiting, and seek medical attention.

Protection of first aid personnel: Ensure that medical personnel are informed about the substance involved. Take pre-cautions to protect yourself and prevent contamination spread.

5. FIREFIGHTING MEASURES

5.1 Extinguishing Media

1. Suitable extinguishing media: Water mist, alcohol-resistant foam, dry chemical powder, carbon dioxide (CO₂), sand.
2. Unsuitable extinguishing media: Do not use a solid water jet, as it may spread or disperse the fire.

5.2 Specific Hazards Arising from the Substance or Mixture

(This section is currently empty. I can help complete it if you specify the substance involved.)

5.3 Advice for Firefighters

1. As with any fire, use a self-contained breathing apparatus (approved by MSHA/NIOSH or equivalent) and full protective gear.
2. Fight fire from a safe distance with adequate cover.
3. Prevent fire extinguishing water from contaminating surface water or groundwater.

6. MEASURES IN CASE OF ACCIDENTAL RELEASE

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures

1. Emergency personnel must use a self-contained breathing apparatus with positive pressure. Wear protective and anti-static clothing. Use chemical-resistant gloves.
2. Ensure adequate ventilation. Eliminate all sources of ignition.
3. Evacuate personnel to safe areas. Keep people away from the spill/leak and upwind.
4. Use personal protective equipment. Avoid inhalation of vapors, mist, gases, or dust.

6.2 Environmental Precautions

1. Prevent new leaks or spills if it is safe to do so.
2. Avoid discharge into the environment.

6.3 Methods and Materials for Containment and Cleaning Up

1. Adhered or collected material must be disposed of promptly in accordance with applicable laws and regulations.
2. Eliminate all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

1. Closed operation with full ventilation.
2. Operators must be specially trained and strictly follow operating procedures.
3. Operators are recommended to use dust-filtering masks and chemical safety goggles.
4. Keep away from fire, heat sources, and smoking is prohibited in the workplace.
5. Use explosion-proof ventilation systems and equipment.
6. Avoid contact with oxidizing agents, reducing agents, and halogens.
7. Have appropriate firefighting equipment in sufficient variety and quantity.

7.2 Precautions for Safe Storage

1. Store in a cool, ventilated warehouse.
2. Keep away from fire and heat sources.
3. Must be stored separately from oxidizers, reducing agents, halogens, etc., and not mixed.
4. Use explosion-proof lighting and ventilation.
5. Use of mechanical equipment and tools that may cause sparks is prohibited.
6. The storage area must be equipped with leak treatment equipment and appropriate containment materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

8.1.1 Occupational Exposure Limits

Occupational exposure limit values

COMPONENTS	ORIGIN / REGION	Limit value – Eight hours:		Limit value – Short term	
		ppm	Mg/m ³	ppm	Mg/m ³
Todos los componentes	USA-OSHA	No specified	No specified	No specified	No specified
	South Korea	No specified	No specified	No specified	No specified
	Ireland	No specified	No specified	No specified	No specified
	Germany	No specified	No specified	No specified	No specified
	Denmark	No specified	No specified	No specified	No specified
	Australia	No specified	No specified	No specified	No specified

8.1.2 Biological Limits

Biological limit values: No information available.

8.1.3 Monitoring Methods

EN 14042: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

BZ/T 160.1 ~ GBZ/T 160.81-2004: Determination of toxic substances in workplace air (series standard).

8.2 Engineering Controls

Ensure adequate ventilation, especially in confined spaces.

Ensure that eye wash stations and safety showers are located near the work area.

Use explosion-proof electrical, ventilation, and lighting equipment.

Establish emergency exits and risk removal zones as needed.

8.3 Personal Protective Equipment

1. General requirement:

(You can continue here with details about respiratory protection, eye protection, gloves, protective clothing, etc.)



2. Eye Protection:

Tightly fitting safety goggles with a hermetic seal, approved according to EN 166 (EU) or NIOSH (USA).

3. Hand Protection:

Use protective gloves (e.g., butyl rubber) that meet the testing requirements of standards EN 374 (EU), US F739, or AS/NZS 2161.1.

4. Respiratory Protection:

If exposure limits are exceeded or irritation or other symptoms occur, use a full-face respirator with multipurpose combined cartridges (USA) or AXBEK-type respirators (EN 14387).

5. Skin and Body Protection:

Wear fire/flame resistant or retardant clothing and antistatic boots.

6. Other Protections:

Smoking, eating, and drinking in the workplace are prohibited. Maintain good personal hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White, black, blue, magenta, yellow liquid.

Odor: Weak odor.

Odor threshold: Not available.

pH value: 7-10.

Melting point/freezing point (°C): -18.

Initial boiling point and boiling range (°C): 95-110.

Flash point (closed cup, °C): >130.

Evaporation rate: Not available.

Flammability (solid or gas): Not available.

Upper/lower explosion limits [% (v/v)]: Not available.

Vapor pressure (kPa): Not available.

Vapor density (air = 1): Not available.

Relative density (water = 1): Not available.

Solubility (mg/L): Not available.

Octanol/water partition coefficient: Not available.

Auto-ignition temperature (°C): Not available.

Decomposition temperature (°C): Not available.

Viscosity (cP): 3.0-5.0.

Other: Resistance value: Not available.

10. STABILITY AND REACTIVITY

Reactivity: Contact with incompatible materials may cause decomposition or other chemical reactions.

Chemical stability: Stable under proper use and storage conditions.

Possibility of hazardous reactions: Not available.

Conditions to avoid: Electrostatic discharges, heat, moisture, etc.

Incompatible materials: Strong oxides, strong acids, strong bases.

Hazardous decomposition products: Under normal storage and use conditions, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity:

Components	LD ₅₀ (oral)	LD ₅₀ (cutaneous)	LC ₅₀ (Inhalation, 4h)
All components	Not available	Not available	Not available

11.2 Carcinogenicity:

Components	IARC	LD ₅₀ (cutaneous)	LC ₅₀ (Inhalation, 4h)
All components	Not available	Not available	Not available

11.3 Other:

Components	Corrosion/Irritation	Serious eye damage / Eye irritation	Skin sensitization	Respiratory sensitization	Reproductive toxicity
All components	Not available	Not available	Not available	Not available	Not available

Specific target organ toxicity (single exposure)	Specific target organ toxicity (repeated exposure)	Aspiration hazard
Not available	Not available	Not available

12. ECOLOGICAL INFORMATION

12.1 Acute aquatic toxicity

Components	Fish	Crustaceans	Seeweed
All components	No disponible	No disponible	No disponible

12.2 Chronic aquatic toxicity

Components	Fish	Crustaceans	Seeweed
All components	No disponible	No disponible	No disponible

12.3 Other:

Components	Persistencia y degradabilidad	Bioacumulación	Movilidad en el suelo	Evaluación de resultados PBT y vPvB
All components	No disponible	No disponible	No disponible	No disponible

13. DISPOSAL CONSIDERATIONS

13.1 General Considerations:

Recycle as much as possible. If recycling is not feasible, dispose of through controlled incineration. Do not dispose of this product via drains or into the sewage system.

13.2 Chemical Waste / Surplus Product:

Must be handled as hazardous waste in accordance with local regulations. Avoid contact with sources of heat and ignition.

13.3 Contaminated Containers:

May present residual hazards even after being emptied.

If possible, return containers to the supplier for recycling.

13.4 Other Recommendations:

Refer to the relevant disposal section in this Safety Data Sheet (SDS).

14. TRANSPORT INFORMATION

14.1 According to the IMO IMDG Code, this substance is suggested not to be subject to regulation under the IMO IMDG Code.

14.2 According to the ICAO TI guidelines and IATA DGR, this substance is suggested not to be subject to these regulations.

14.3 Rail transport, in accordance with the list of dangerous goods by rail, can be handled as ordinary goods.

UN number (UN No.): The product is not classified as hazardous.

Proper UN shipping name: None.

UN hazard classification: None.

Packing group: None.

Packaging label: None.

Marine pollutants (Yes/No): No.

Air pollution (Yes/No): No.

Soil pollution (Yes/No): No.

Packaging method:

Package according to the manufacturer's recommendations. For example: open drums, ampoule bottles inside standard wooden boxes, screw-cap glass bottles, iron lids, glass bottles, plastic bottles, or metal drums (cans) inside ordinary wooden boxes.



*NOTE ON TRANSPORTATION:

- It is strictly prohibited to mix and transport this substance together with acids, alkalis, oxidizing agents, food, or food additives.
- The exhaust pipe of the vehicle transporting this material must be equipped with a fire-retardant device, and the use of mechanical equipment and tools that may generate sparks is prohibited.
- During transport, exposure to sunlight, rain, and high temperatures must be avoided.
- The transport tank must be equipped with a grounding chain, and an internal partition may be installed to reduce static electricity caused by vibration.
- The use of wooden ships and concrete ships for bulk transport is strictly prohibited.
- Transport vehicles must be equipped with appropriate fire-fighting equipment and emergency response devices in adequate types and quantities.
- Before shipment, it must be confirmed that the packaging is intact and well sealed.
- Hazard signs and warning labels must be placed on the means of transport in accordance with applicable hazardous materials transport regulations.

15. REGULATORY INFORMATION

International Chemical Inventories:

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECL	AICS
Glycerin	Listing	Listing	Listing	Listing	Listing	Listing	Listing	Listing
Titanium oxide	Listing	Listing	Listing	Listing	Listing	Listing	Listing	Listing
Pigment Black 7								
Blue Pigment								
Quinacridone Pigment								
Yellow Pigment								
Water	Listing	Listing	Listing	Listing	Listing	Listing	Listing	Listing

EINECS: European Inventory of Existing Commercial Chemical Substances

TSCA: United States Toxic Substances Control Act Inventory

DSL: Canadian Domestic Substances List

IECSC: Inventory of Existing Chemical Substances in China

NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

KECL: Korean Existing Chemicals List

16. OTHER:

Reference:

IPCS: The International Chemical Safety Cards (ICSC) ,website: <http://www.ilo.org/dyn/iscs/showcard.home>

IARC,website: <http://www.iarc.fr/>

OECD: The Global Portal to Information on Chemical Substances,website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en

CAMEO Chemicals,website: <http://cameochemicals.noaa.gov/search/simple>

NLM: ChemIDplus,website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>

EPA: Integrated Risk Information System,website: <http://cfpub.epa.gov/iris/>

U.S. Department of Transportation: ERG,website: <http://www.phmsa.dot.gov/hazmat/library/erg>

Germany GESTIS-database on hazard substance,website: <http://gestis-en.itrust.de/>

17. OTHER:

Abbreviations and Acronyms:

CAS – Chemical Abstracts Service: Chemical substance identification number service.

PC-STEL – Short-Term Exposure Limit.

DNEL – Derived No-Effect Level.

RPE – Respiratory Protective Equipment.

LC₅₀ – **Lethal Concentration 50%:** Concentration lethal to 50% of test organisms.

NOEC – No Observed Effect Concentration.

BCF – Bioconcentration Factor.

PBT – Persistent, Bioaccumulative, Toxic.

vPvB – Very Persistent, Very Bioaccumulative.

PNEC – Predicted No-Effect Concentration.

PC-TWA – Time Weighted Average.

POW – Partition Coefficient Octanol/Water.

NFPA – National Fire Protection Association (USA).

IARC – International Agency for Research on Cancer.

CMR – Carcinogens, Mutagens, or substances toxic to Reproduction.

OECD – Organization for Economic Co-operation and Development.

ACGIH – American Conference of Governmental Industrial Hygienists.

IMDG – International Maritime Dangerous Goods Code.

UN – United Nations.

ICAO/IATA – International Civil Aviation Organization / International Air Transport Association.



17.DISCLAIMER

This Safety Data Sheet (SDS) has been prepared in accordance with the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS), 7th revised edition.

The data included have been obtained from recognized international databases and provided by the company. Other information is based on the current state of our knowledge. Every effort has been made to ensure the accuracy of the information contained herein.

However, due to the diversity of information sources and limitations of available knowledge, this document is provided solely as a reference for the user. Users should conduct their own independent evaluation regarding the suitability of this information for their specific purposes.

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