
HEALTH AND SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND COMPANY.**Product and reference:** 544 Black**Intended use:** Ball pen Ink

Identification of the company: FORMULABS IBÉRICA, S.A.
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2. COMPOSITION / INFORMATION ON INGREDIENTS.

<u>FORMULABS No./CAS No.</u>	<u>Chemical Family</u>	<u>Conc. Range</u>	<u>R-phrases</u>	<u>Symbol letter</u>
122-99-6	2-phenoxyethanol	15-40 %	R22-36	Xn
F1008	Triphenyl methane dye	0 - 25 %	R22	Xn
F1101	Solvent dye	1-15 %	R22	Xn

for full text see section 16

EXPOSURE LIMITS (ACGIH 1993-1994)

TLV: Threshold Limit Value TWA: Time Weighted Average STEL: Short Term Exposure Limit

<u>FORMULABS No./CAS No.</u>	<u>Chemical Family</u>	<u>TLV- TWA</u>	<u>TLV-STEEL</u>
122-99-6	2-phenoxyethanol	25 ppm (skin)	

3. HAZARDS IDENTIFICATION.

Harmful.

4. FIRST AID MEASURES.**General:**

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation:

Remove to fresh air, keep the patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in the recovery position and seek medical advice.

Eye contact:

Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart, and seek medical advice.

Skin contact:

Remove dirty clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do not use solvents or thinners.

Ingestion:

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do not induce vomiting.

5. FIRE FIGHTING MEASURES.

Extinguishing media:

Recommended: alcohol resistant foam, CO₂, powder, water, spray/mist.

Not to be used: water jet.

Recommendations:

Fire will produce dense black smoke containing hazardous products of combustion (see section 10). Decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or watercourses.

6. ACCIDENTAL RELEASE MEASURES.

Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8. Contain and collect spillage's with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Do not allow to enter drains or watercourses.

Clean preferably with a detergent; avoid the use of solvents.

7. HANDLING AND STORAGE.

Handling:

Keep the container tightly closed. Exclude sources of heat and open flame.

Avoid skin and eye contact. Avoid inhalation of vapour.

Smoking, eating and drinking should be prohibited in areas of storage and use.

For personal protection, see Section 8.

To avoid contamination's always keep in containers made of the same material as the supply container.

Storage:

Store between 5 and 35 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Containers which are opened should be properly resealed and kept upright to prevent leakage. Store separately from oxidising agents and strongly alkaline and strongly acidic materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION.

Engineering Measures:

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulate and/or solvent vapours below the relevant occupational exposure limits, suitable respiratory protective equipment should be worn (see Exposure Limits in section 2 and 'Personal Protection' below).

Personal protection:

All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet good industrial practice.

Respiratory protection:

Suitable approved respirator for organic vapours and fumes. Mechanical ventilation is acceptable.

Hand protection:

Rubber gloves.

Eye protection:

Eye protection designed to protect against liquid splashes should be worn.

Skin protection:

Cotton or cotton/synthetic overalls or coveralls are normally suitable.
Dirty clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.

9. PHYSICAL AND CHEMICAL PROPERTIES.

physical state:	Viscous liquid
flash point:	> 80 °C
vapour density:	Heavier than air
solubility in water:	Partially miscible

10. STABILITY AND REACTIVITY.

Stable under the recommended storage and handling conditions. (See section 7). In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide, and oxides of nitrogen may be produced.

Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.

11. TOXICOLOGICAL INFORMATION.

There is no data available on the product itself.

Repeated or prolonged contact with the product may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Splashes in the eyes may cause irritation and reversible local damage.

2-phenoxyethanol :	LD50 (rat/oral)	1400 - 4000 mg / kg
FI101 :	LD50 (rat/oral)	200 - 2000 mg / kg
FI108 :	LD50 (rat/oral)	>2500 mg / kg

12. ECOLOGICAL INFORMATION.

There is no data available on the product itself. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

2-phenoxyethanol :	Toxicity in fishes	LC50 (<i>Pimephales promelas</i>)	347 mg / l
	Toxicity in organism	LC50 (<i>Daphnia magna</i>)	460 mg / l

13. DISPOSAL CONSIDERATIONS.

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations.

14. TRANSPORT INFORMATION.

The product is not classified as dangerous for transport purposes.

15. REGULATORY INFORMATION.

This product is classified and labelled for supply in accordance with regulations as follows:

Symbol letter : (Xn) HARMFUL
R-phrases : R22.- Harmful if swallowed.
R36.- Irritating to eyes.
S-phrases : S24/25.- Avoid contact with eyes and skin.
S26/28.- In case of contact with eyes and skin, rinse immediately with
plenty of water and seek medical advice.
S36.- Wear suitable protecting clothing and gloves.

16. OTHER INFORMATION

Text of R- phrases listed in Section 2:

Symbol letter: (Xn) HARMFUL

R-phrases: R22.- Harmful if swallowed.
R36.- Irritating to eyes.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of this product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.