

21874-XXXX



PRODUCTOS PELIKAN, S.A. DE C.V.

# Material Safety Data Sheet

According 91 / 155 / EC

## 1. PRODUCT NAME AND SUPPLIER

**Material Trade Name:** TECHNOLINER 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8  
**Material description:** High precision drawing instrument in Black and Blue color.  
**Recommended use:** Marker for use over paper.  
**Manufacturer:** PRODUCTOS PELIKAN S.A. DE C.V.  
**Address:** Carretera a Tehuacán No. 1033 Col. Maravillas C.P. 72220 Puebla, México  
**Telephone:** 52 (222) 309-8000 Fax: 52 (222) 309-8046

## 2. CHEMICAL COMPOSITION

**Chemical nature:**  
**Hazardous ingredients:** Ink content  
 Mixture based on water, glycols and pigments.  
 Ethylene Glycol Weight: 20 - 25%  
 (CAS#107-21-1, R22, 36 / S26, 36, 37, 39, 45, 53)  
 Propylene Glycol Weight: 1 - 4%  
 (CAS#57-55-6, R36, 38 / S26, 36)

Weight percentage depending on color.

## 3. POSSIBLE HAZARDS

**Not if used intended purpose**  
**Classification of the product:** Non flammable  
**Environmental effects:** Contains hazardous substances(s) for the environment.  
**Physical and chemical hazards:**  
**-Fire or explosion:** Non-Flammable Waterbased

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- Burning and thermal decomposition may form toxic by products (Ink only)
- **Clasificación de the product:** According to European regulations, this product is classified as: IRRITANT
- **Further information:** In a usual writing situation, quantities of ink laid down or vapors emitted by the pen are normally too small to occasion significant exposure and cause effects on the user's health.

#### 4. FIRST AID MEASURES

Routes of Exposure: Eyes [ ] Skin [ X ] Inhalation [ X ] Ingestion [ X ]

Emergency and First Aid Procedures:

Ingestion: Seek medical advice, ingestion of plastic parts may cause asphyxia Skin: Ink spots wash with soap and water

Eyes: N.A. Inhalation: Move to the affected person into the fresh air.

After inhalation: N.A.

After skin- or eye - contact: N.A.

After ingestion: Rinse the mouth with water, seek medical advice

#### 5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide (CO<sub>2</sub>), foam.  
 Suitable for all regular extinguishing material  
 Extinguishing media which must not be used for safety reason:  
 None  
 Special exposure hazards arising from the product itself, from combustion products or from resulting gases: None  
 Special protective equipment for firefighters:  
 No special measures necessary

#### 6. MEASURES FOR ACCIDENTAL SPILLAGE

Steps to be taken in case material is released or wringed: Retrieve with absorbent material.  
 Waste Disposal: wash with soap and water.  
 Voluminous amounts: N.A.

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**7. HANDLING AND STORAGE**

None

**8. LIMITS OF EXPOSITION AND PROTECTIVE CLOTHING**

|  |               |
|--|---------------|
| Additional remarks relating technical equipments:              | None          |
| Ingredients with limits to be controlled at the place of work: | None          |
| General measures of protection and hygiene:                    | None          |
| Ventilation:   | None Required |
| Eye Protection:  | None Required |
| Skin Protection:   | None Required |
| Respiratory Protection:  | None Required |
| Other Protection:  | None Required |

**9. PHYSICAL AND CHEMICAL PROPERTIES**

|                   |   |
|-------------------|---|
| Appearance:       | Marker with plastic barrel and cap in blue color, plastic plug and insert in the Ink color, plastic nib with metal holder, polyester reservoir for Ink and water based Ink. |
| Odor:             | Low odor.   |
| Boiling Point:    | N.A.  |
| Flammable Limits: | N.A.  |
| Water Solubility: | Ink is soluble  |
| Materials:        | Plug, cap, insert and barrel in Polypropylene   |
| Printing film:    | Silver foil for logo, bar code and width identification.  |

**10. STABILITY AND REACTIVITY**

|                          |   |
|--------------------------|---|
| Stability:               | Material is stable.   |
| Conditions to Avoid:     | N.A.  |
| Incompatible Materials:  | N.A.  |
| Hazardous Decomposition: | On combustion of the ink or on thermal decomposition (pyrolysis) releases: Carbon oxides (CO, CO <sub>2</sub> ) |

**11. DECLARATIONS TO TOXICOLOGY**

Ingestion: No test data available

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Ink materials:

|                  |   |
|------------------|---|
| Ethylene Glycol  | Harmful if swallowed. May be harmful if inhaled or in contact with the skin. Skin and respiratory irritant. Severe eye irritant. Typical OEL 10 - 25 ppm. Reproductive hazard..<br><b>Toxicity data</b><br>ORL-HMN LDLO 786 mg kg-1<br>ORL-RAT LD50 4700 mg kg-1<br>IPR-MUS LD50 5614 mg kg-1 |
| Propylene Glycol | May be harmful by ingestion, inhalation or through skin contact. May cause skin or eye irritation..<br><b>Toxicity data</b><br>ORL-RAT LD50 20000 mg kg-1<br>IPR-RAT LD50 6660 mg kg-1<br>IMS-RAT LD50 14000 mg kg-1<br>IVN-RBT LDLO 4200 mg kg-1   |

## 12. REMARKS ON ECOLOGY

No test data available  
Ingredients are not biologically decomposable

## 13. DISPOSAL

Extensive amounts according local regulations  
Small residues domestically waste

## 14. REGULATIONS FOR TRANSPORT

|   |   |
|---|---|
| No dangerous good   | Packing group: N.A.                     |
| Class: N.A.   | Number: N.A.                            |
| Marine Pollutant: No  | Precautions to be taken in Handling: NA |
| Other Precautions: None Required  |   |
| Precautions to be taken in Storage: Keep in fresh and dry area. Be careful with contamination for other liquids |   |

## 15. REGULATIONS

Ink content hazardous ingredients:

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Ethylene Glycol:

|     |  |
|-----|--|
| R22 | Harmful if swallowed   |
| R36 | Irritating to eyes   |
| S26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice                   |
| S36 | Wear suitable protective clothing.   |
| S37 | Wear suitable gloves.  |
| S39 | Wear eye / face protection.  |
| S45 | In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible.) |
| S53 | Avoid exposure - obtain special instructions before use.   |

Propylene Glycol:

|     |  |
|-----|--|
| R36 | Irritating to eyes   |
| R38 | Irritating to skin   |
| S26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice |
| S36 | Wear suitable protective clothing.   |

16. FURTHER INFORMATION:

The specifications are supplied to the best of knowledge.

No claims may be derive from this data sheet.

Restriction of use: This product must not be used for other applications than mentioned in Feature #1.

Prepared by: E. Del Valle R&D Manager Date: February 18, 2008

Authorized by: J. L. Hernández Technical Director

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**ADDITIONAL NOTES OR REFERENCES**

Note: N.A. - Not Applicable Information.

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