

**IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**

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**SAFETY DATA SHEET**

PRODUCT: Pelikan inks for: Wilsmann Clip Multicolor (1954;1963;1971;1984)

**2 COMPOSITION / INFORMATION ON INGREDIENTS**

	Ingredients	CAS No.	EC No.	Weight %	Symbols	R-Phrases
###	Diethylene glycol	111-46-6	203-872-2	5-15	Xn	22
###	2-(2-butoxyethoxy)ethanol	112-34-5	203-961-6	3-10	Xi	36
###	2-pyrrolidone	616-45-5	210-483-1	< 5	Xn	22,36/37/38

**3 HAZARDS IDENTIFICATION**

- ###
- No hazard expected under normal conditions of use
  - See Section 16.1 for ingredient R-Phrases

**4 FIRST-AID MEASURES****CONTACT WITH SKIN**

- Wash affected area with plenty of soap and water

**CONTACT WITH EYES**

- If substance has got into eyes, immediately wash out with plenty of water

**INGESTION**

- Give water or milk to drink
- Seek immediate medical attention

**INHALATION**

- Remove patient to fresh air
- Keep warm and at rest

**OTHER INFORMATION**

- When in doubt or symptoms persist, seek medical attention

**5 FIRE-FIGHTING MEASURES**

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
- Toxic and irritant fumes may be formed

**6 ACCIDENTAL RELEASE MEASURES**

- Shut off all ignition sources
- Absorb spillage in suitable inert material
- Ventilate the area and wash spill site after material pick-up is complete
- See Section 13

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**7 HANDLING AND STORAGE****7.1 HANDLING**

- The usual precautions for handling chemicals should be observed

**7.2 STORAGE**

- Keep in a cool, dry, well ventilated place
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**8 EXPOSURE CONTROLS / PERSONAL PROTECTION****8.1 GENERAL**

- Use good personal hygiene practices
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**8.2 EXPOSURE LIMITS**

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- Diethylene glycol

Constituent Exposure Limit:

OES / LTEL 23 ppm 101 mg/m<sup>3</sup>OES / STEL --- ppm --- mg/m<sup>3</sup>(Germany) MAK 10 ppm 44 mg/m<sup>3</sup>

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- 2-(2-butoxyethoxy)ethanol

OES / LTEL --- ppm --- mg/m<sup>3</sup>OES / STEL --- ppm --- mg/m<sup>3</sup>(Germany) MAK --- ppm 100 mg/m<sup>3</sup>

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- 2-pyrrolidone

No exposure limits have been set for this substance

**9 PHYSICAL AND CHEMICAL PROPERTIES**

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- Liquid, coloured, miscible with water
  - Perceptible odour
  - Non-combustible
  - Boiling point ND deg C
  - Flash point NA deg C (CC)
  - Melting point ND deg C
  - Auto-ignition point ND deg C
  - pH 8.2-9.9
  - Density 1.02-1.05 g/cm<sup>3</sup> at 25 deg C
  - Vapour pressure ca 23 mbar
  - Fat solubility ND kg/l
  - Partition coefficient : n-Octanol/water ND
  - Viscosity 1.68-2.11 centipoise at 25 deg C
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**10 STABILITY AND REACTIVITY**

- Keep away from heat
  - Keep away from strong oxidizing substances
  - Decomposition products may include nitrogen and carbon oxides
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**11 TOXICOLOGICAL INFORMATION**

- By comparison with another product:
  - LD50 (oral,rat) > 30 000 mg/kg
  - Vapours or aerosols may cause irritation of eyes, nose and respiratory tract
  - May cause gastrointestinal disturbances
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**12 ECOLOGICAL INFORMATION**

- Water Hazard Class 1 (Company)
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**13 DISPOSAL CONSIDERATIONS**

- Disposal should be in accordance with local, state or national legislation
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**14 TRANSPORT INFORMATION****14.1 REGULATIONS**

- Proper Shipping Name: NA

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**14.2 GENERAL**

- Not classified as hazardous for transport
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**15 REGULATORY INFORMATION**

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- Not hazardous according to current Dangerous Preparations Directive (1999/45/EC)
  - Not hazardous according to current CHIP Regulations
  - Not hazardous according to current Gefährliche Stoffe Verordnung
  - Not classified as hazardous for users
  - The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents
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**15.1 RISK PHRASES**

- None assigned
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**15.2 SAFETY PHRASES**

- None assigned
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**16 OTHER INFORMATION****16.1 INGREDIENT R-PHRASES**

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- R22: Harmful if swallowed
  - R36: Irritating to eyes
  - R36/37/38: Irritating to eyes, respiratory system and skin
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- 16.2
- The precise composition of this product is proprietary information. More details will be supplied in confidence to qualified medical personnel if specific treatment is necessary.
  - This product conforms to all known European chemicals safety legislation.
  - Water Hazard Class: 1 = slight, 2 = medium, 3 = severe hazard.
  - NA = not applicable; NC = not classified; ND = no data; TWA = time-weighted average.
  - LTEL = 8hr TWA; STEL = 15min TWA; ppm = parts per million.
  - ### = changes to section since last revision.
  - The above information relates only to the safety of the product designated, based on our current state of knowledge. No responsibility is accepted for any errors or omissions.
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