

IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY / UNDERTAKING

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SAFETY DATA SHEET

PRODUCT: Pelikan blue ink for LCP

2 COMPOSITION / INFORMATION ON INGREDIENTS

	Ingredients	CAS No.	EC No.	Weight %	Symbols	R-Phrases
	ethanol	64-17-5	200-578-6	90-100	F	11
#	propan-1-ol	71-23-8	200-746-9	< 5	F,Xi	11,41,67

3 HAZARDS IDENTIFICATION

- #
- Highly Flammable
 - 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

- In case of fire use water, carbon dioxide or dry agent (S43)
- Do not use water jets
- Toxic and irritant fumes may be formed

6 ACCIDENTAL RELEASE MEASURES

- Shut off all ignition sources
- Do not allow to enter public sewers and watercourses
- Ventilate area
- Absorb spillage in suitable inert material
- See Section 13

7 HANDLING AND STORAGE**7.1 HANDLING**

- Keep away from heat and sources of ignition
- Use only in well ventilated areas (S51)
- The usual precautions for handling chemicals should be observed

7.2 STORAGE

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- Keep in a cool, dry, well ventilated place
- Keep container tightly closed and in a well ventilated place (S7/9)
- Keep away from sources of ignition - No Smoking (S16)
- Keep in highly flammable materials store

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION**8.1 GENERAL**

#

- Wear nitrile gloves
- Use good personal hygiene practices

8.2 EXPOSURE LIMITS

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- | | |
|---------------|---|
| • ethanol | Constituent Exposure Limit:
OES / LTEL 1000 ppm 1920 mg/m3
OES / STEL --- ppm --- mg/m3
(Germany) MAK 500 ppm 960 mg/m3 |
| • propan-1-ol | OES / LTEL 200 ppm 500 mg/m3
OES / STEL 250 ppm 625 mg/m3
(Germany) MAK --- ppm --- mg/m3
(France) VLE 200 ppm 500 mg/m3 |

9 PHYSICAL AND CHEMICAL PROPERTIES

- Liquid, blue, volatile, miscible with water
- Smells of alcohol
- Lower explosive limit 3.5 % (in air)
- Upper explosive limit 15.0 % (in air)
- Product increases fire risk
- Combustible
- Boiling point ca 78 deg C
- Flash point 12 deg C (CC)
- Auto-ignition point > 400 deg C
- pH ND
- Density 0.795 g/cm3 at 25 deg C
- Vapour pressure ca 60 mbar
- Viscosity 2.074 centipoise at 25 deg C

10 STABILITY AND REACTIVITY

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

11 TOXICOLOGICAL INFORMATION

- Inhalation of solvent vapours may give rise to nausea, headaches and dizziness
 - Vapours or aerosols may cause irritation of eyes, nose and respiratory tract
 - May result in feeling of intoxication and can cause visual disturbance
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12 ECOLOGICAL INFORMATION

- Presents no hazard to the environment
 - Water Hazard Class 0 (Company)
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13 DISPOSAL CONSIDERATIONS

- Disposal should be in accordance with local, state or national legislation
 - This material and its container must be disposed of as hazardous waste (S60)
 - Disposal can be a hazardous operation, seek specialist advice
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14 TRANSPORT INFORMATION**14.1 REGULATIONS**

- Proper Shipping Name: Printing Ink

UN

UN No	:	1210	Hazard Class	:	3
Packing Group	:	II			

Road / Rail (ADR / RID)

ADR UN No	:	1210	ADR Hazard Class	:	3
ADR Item No	:	5(b)	ADR/RID No	:	HZ33
Tremcard	:	ND			

Sea (IMDG)

IMDG UN No	:	1210	IMDG Hazard Class	:	3
IMDG Page No	:	3272-1	IMDG Pack. Group	:	II
IMDG EmS	:	-	IMDG MFAG	:	-

Air (ICAO / IATA)

ICAO UN No	:	1210	ICAO Hazard Class	:	3
ICAO Packing Group	:	II			

14.2 GENERAL

- Transport Regulations apply as indicated in previous section
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15 REGULATORY INFORMATION

- #
- This product is covered by Dangerous Preparations Directive (1999/45/EC) as amended
 - Refer to current CHIP Regulations
 - Refer to current Gefährliche Stoffe Verordnung
 - Refer to current VbF
 - This Safety Data Sheet is provided in compliance with the Safety Data Sheets Directive (91/155/EC)

SYMBOL(S)

HIGHLY
FLAMMABLE

15.1 RISK PHRASES

- Highly Flammable (R11)

15.2 SAFETY PHRASES

- Keep away from sources of ignition - No Smoking (S16)
- Use only in well ventilated areas (S51)
- Keep container tightly closed and in a well ventilated place (S7/9)
- This material and its container must be disposed of as hazardous waste (S60)

16 OTHER INFORMATION**16.1 INGREDIENT R-PHRASES**

- #
- R11: Highly Flammable
 - R41: Risk of serious damage to eyes
 - R67: Vapours may cause drowsiness and dizziness

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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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