

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

DISTRIBUTOR: Pelikan Hardcopy European Logistics & Services GmbH
Neue Strasse 19
D-52382 Niederzier 2 Germany
Telephone: +49 (0) 2428 830

ADMIN/TECH CENTRE: Pelikan Hardcopy (International) AG
Gewerbstrasse 9
CH-8132 Egg/ZH Switzerland
Telephone: +41 (0) 1 986 1111



Emergency Telephone: +41 (0) 1 986 1111

SAFETY DATA SHEET

PRODUCT: Pelikan ink, washable: Continuous Jet

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS No.	EC No.	Weight %	Symbols	R-Phrases
Butanone	78-93-3	201-159-0	45-50	F,Xi	11,36,66,67
Ethanol	64-17-5	200-578-6	25-30	F	11

3 HAZARDS IDENTIFICATION

- #
- Highly Flammable
 - Irritating to eyes
 - Repeated exposure may cause skin dryness or cracking
 - Vapours may cause drowsiness and dizziness
 - 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

- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)

INGESTION

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

INHALATION

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

OTHER INFORMATION

- See Section 11 - Toxicological 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
- Avoid contact with eyes
- The usual precautions for handling chemicals should be observed

7.2 STORAGE

- Keep container in a well ventilated place (S9)
- Keep away from sources of ignition - No Smoking (S16)
- Keep in highly flammable materials store

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

#

- Wear nitrile gloves
- Use good personal hygiene practices

8.2 EXPOSURE LIMITS

- | | |
|------------|--|
| • Butanone | Constituent Exposure Limit:
OES / LTEL 200 ppm 600 mg/m3
OES / STEL 300 ppm 899 mg/m3
(Germany) MAK 200 ppm 600 mg/m3
Can be absorbed through the skin |
| • Ethanol | OES / LTEL 1000 ppm 1920 mg/m3
OES / STEL --- ppm --- mg/m3
(Germany) MAK 500 ppm 960 mg/m3
(France) VME 1000 ppm 1900 mg/m3 |

9 PHYSICAL AND CHEMICAL PROPERTIES

- Liquid, black, mobile, dispersible in water
- Unpleasant odour
- Lower explosive limit 1.8 % (in air)
- Upper explosive limit 11.5 % (in air)
- Product increases fire risk
- Combustible
- Boiling point ca 80 deg C
- Flash point ca -4 deg C (CC)
- pH 6.8 at 50 % concentration
- Density 0.879 g/cm3 at 25 deg C
- Vapour pressure ca 69.7 mbar
- Water solubility > 600 g/l

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
- Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis
- Vapours or aerosols may cause irritation of eyes, nose and respiratory tract
- May cause gastrointestinal disturbances

12 ECOLOGICAL INFORMATION

- Water Hazard Class 1 (Company)

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

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)	KEMLER No	:	33
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)

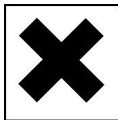
ICAO UN No	:	1210	ICAO Hazard Class	:	3
ICAO Packing Group	:	II			

14.2 GENERAL

- Transport Regulations apply as indicated in previous section
-

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****IRRITANT**

15.1 RISK PHRASES

- Highly Flammable (R11)
- Irritating to eyes (R36)
- Repeated exposure may cause skin dryness or cracking (R66)
- Vapours may cause drowsiness and dizziness (R67)

15.2 SAFETY PHRASES

- Keep container in a well ventilated place (S9)
- Keep away from sources of ignition - No Smoking (S16)
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)
- This material and its container must be disposed of as hazardous waste (S60)

16 OTHER INFORMATION**16.1
#**

- R11: Highly Flammable
- R36: Irritating to eyes
- R66: Repeated exposure may cause skin dryness or cracking
- R67: Vapours may cause drowsiness and dizziness

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.
-