



SAFETY DATA SHEET

22.992: Pelikan cleaner for Leica

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

PRODUCT NAME 22.992: Pelikan cleaner for Leica

SUPPLIER Pelikan Hardcopy European
Logistics & Services GmbH
Neue Strasse 19
D-52382 Niederrhein 2
Germany
+49 (0) 2428 830
Olaf Lehmann
olaf.lehmann@phpag.com

EMERGENCY TELEPHONE +41 (0) 44 986 1111 (available only during office hours)

2 HAZARDS IDENTIFICATION

Flammable.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
1-METHOXY-2-PROPANOL	203-539-1	107-98-2	60-100%	R10
2-METHOXYPROPANOL	216-455-5	1589-47-5	< 1%	R10 Repr. Cat. 2;R61 Xi;R37/38,R41

The Full Text for all R-Phrases are Displayed in Section 16

COMPOSITION COMMENTS

The Data Shown is in accordance with the latest EC Directives.

4 FIRST-AID MEASURES

GENERAL INFORMATION

Never make an unconscious person vomit or drink fluids!

INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention.

INGESTION

Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention immediately!

SKIN CONTACT

Remove contaminated clothing. Wash skin thoroughly with soap and water.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapours. Keep run-off water out of sewers and water sources. Dike for water control. Water spray should be used to cool containers.

UNUSUAL FIRE & EXPLOSION HAZARDS

Solvent vapours may form explosive mixtures with air.

SPECIFIC HAZARDS

By heating and fire, toxic vapours/gases may be formed.

22.992: Pelikan cleaner for Leica**PROTECTIVE MEASURES IN FIRE**

Use air-supplied respirator during fire fighting. Wear full protective clothing.

6 ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS**

Use protective gloves, goggles and suitable protective clothing. Do not breathe vapour.

ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains, sewers or watercourses.

SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Collect with non-combustible absorbent material. Flush with water. Dike for large spills. For waste disposal, see section 13.

7 HANDLING AND STORAGE**USAGE PRECAUTIONS**

Provide good ventilation. Keep away from heat, sparks and open flame. Avoid contact with skin and eyes. Do not eat, drink or smoke when using the product. Observe good industrial hygiene practices.

STORAGE PRECAUTIONS

Keep in a cool, dry, well-ventilated place. Keep containers tightly closed. Keep away from heat, sparks and open flame. Take precautionary measures against static discharges. Store away from Acids. Alkalies. Oxidising material.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
1-METHOXY-2-PROPANOL	WEL	100 ppm(Sk)	375 mg/m3(Sk)	150 ppm(Sk)	560 mg/m3(Sk)	

WEL = Workplace Exposure Limit.

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded. Observe Workplace Exposure Limits and minimise the risk of inhalation of vapours.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

HAND PROTECTION

Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

If risk of splashing, wear safety goggles or face shield.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination.

HYGIENE MEASURES

Wash promptly with soap & water if skin becomes contaminated. Wash contaminated clothing before reuse.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Colourless		
ODOUR	Slight odour of alcohol		
SOLUBILITY	Miscible with water. Soluble in Organic solvents.		
BOILING POINT (°C)	119 - 122 @ 760 mm Hg	MELTING POINT (°C)	-95
RELATIVE DENSITY	0.92 @ 20 °C	VAPOUR PRESSURE	1.33 kPa @ 20 °C
pH-VALUE, CONC. SOLUTION	4-7	VISCOSITY	1.91 mPas @ 20 °C
FLASH POINT (°C)	32	AUTO IGNITION	270
		TEMPERATURE (°C)	
FLAMMABILITY LIMIT - LOWER(%)	1.7	FLAMMABILITY LIMIT - UPPER(%)	11.5
PARTITION COEFFICIENT (N-Octanol/Water)	log Pow = 0.43		

22.992: Pelikan cleaner for Leica**10 STABILITY AND REACTIVITY****STABILITY**

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

MATERIALS TO AVOID

Strong acids. Strong alkalis. Strong oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 > 5 000 mg/kg (oral rat)

INHALATION

May cause irritation to the respiratory system. In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea.

INGESTION

Gastrointestinal symptoms, including upset stomach.

SKIN CONTACT

May be absorbed through the skin. Prolonged or repeated exposure to this chemical may cause: Skin irritation.

EYE CONTACT

May cause temporary eye irritation.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

The product is not expected to be hazardous to waste water treatment processes. Volatile organic compounds (VOC): 75-100%.

LC 50, 96 Hrs, FISH mg/l > 4 600

MOBILITY

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. The product is partly miscible with water and may spread in the aquatic environment.

BIOACCUMULATION

The product does not contain any substances expected to be bioaccumulating.

DEGRADABILITY

The product is expected to be biodegradable.

WATER HAZARD CLASSIFICATION

WGK 1 (Slight hazard)(Self-classification).

13 DISPOSAL CONSIDERATIONS**GENERAL INFORMATION**

Waste is classified as hazardous waste. Disposal should be in accordance with local, state or national legislation.

DISPOSAL METHODS

Contact specialist disposal companies. Incineration by an approved method could be considered.

WASTE CLASS

List of Wastes (ref: Decision 2000/532/EC): 08 03 12*.

14 TRANSPORT INFORMATION

22.992: Pelikan cleaner for Leica

UK ROAD CLASS	3		
PROPER SHIPPING NAME	1-METHOXY-2-PROPANOL		
UN NO. ROAD	3092	UK ROAD PACK GR.	III
ADR CLASS NO.	3	ADR PACK GROUP	III
HAZARD No. (ADR)	30	HAZCHEM CODE	2Y
CEPIC TEC(R) NO.	ND	RID CLASS NO.	3
RID PACK GROUP	III	UN NO. SEA	3092
IMDG CLASS	3	IMDG PACK GR.	III
MARINE POLLUTANT	No.	UN NO. AIR	3092
AIR CLASS	3	AIR PACK GR.	III

15 REGULATORY INFORMATION

RISK PHRASES

R10 Flammable.

SAFETY PHRASES

S24 Avoid contact with skin.

S51 Use only in well-ventilated areas.

S60 This material and its container must be disposed of as hazardous waste.

UK REGULATORY REFERENCES

Health and Safety at Work Act 1974.

ENVIRONMENTAL LISTING

Environmental Protection Act 1990. Pollution Prevention and Control Act 1999.

EU DIRECTIVES

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations.

GUIDANCE NOTES

Classification and Labelling of Substances and Preparations Dangerous for Supply.

NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Workplace Exposure Limits EH40. Hazardous Waste Regulations 2005. List of Wastes Regulations 2005. The Solvent Emissions Regulations 2004.

16 OTHER INFORMATION

GENERAL INFORMATION

NA = not applicable. NC = not classified. ND = no data. TWA = time-weighted average. This Safety Data Sheet satisfies the requirements of the REACH Regulation (EC): No 1907/2006, as corrected. Article 31. All brand names and trademarks are the property of their respective holders and are used here for descriptive purposes only.

REVISION COMMENTS

Changes to Section(s): 15 16

REVISION DATE C / 18.01.10

SDS NO. 22.992

RISK PHRASES IN FULL

R10 Flammable.
R37/38 Irritating to respiratory system and skin.
R41 Risk of serious damage to eyes.
R61 May cause harm to the unborn child.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.