



SAFETY DATA SHEET

22.993: Pelikan black ink (UV) for Leica

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

PRODUCT NAME 22.993: Pelikan black ink (UV) for Leica

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2 HAZARDS IDENTIFICATION

Flammable. Irritating to eyes. May cause sensitisation by skin contact. Possible risk of impaired fertility. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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
AROMATIC URETHANE ACRYLATE			10-30%	Xi;R36.
DIACRYLATE OF BISPHENOL A DERIVATIVE			1-5%	Xi;R36.
DIPENTAERYTHRITOL PENTA/HEXYL ACRYLATE	249-698-0	29570-58-9	5-10%	Xi;R36. R43.
DIPHENYL (2,4,6-TRIMETHYLBENZOYL) PHOSPHINE OXIDE	278-355-8	75980-60-8	5-10%	Repr. Cat. 3;R62. N;R51/53.
ETHOXYLATED (3) TRIMETHYLOLPROPANE TRIACRYLATE		28961-43-5	5-10%	Xi;R36.
HEXAMETHYLENE DIACRYLATE	235-921-9	13048-33-4	1-5%	R43 Xi;R36/38
TRIS (2-HYDROXYETHYL) ISOCYANURATE TRIACRYLATE	254-843-6	40220-08-4	5-10%	Xi;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 immediately. Continue to rinse.

5 FIRE-FIGHTING MEASURES

22.993: Pelikan black ink (UV) for Leica**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.

UNUSUAL FIRE & EXPLOSION HAZARDS

Solvent vapours may form explosive mixtures with air. Polymerises easily with evolution of heat. Keep cool.

SPECIFIC HAZARDS

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

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. Protect from light, including direct sunrays. 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 Black

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ODOUR	Noticeable.		
SOLUBILITY	Not soluble in water. Soluble in Organic solvents.		
BOILING POINT (°C)	117 - 125 @ 760 mm Hg	RELATIVE DENSITY	ca 0.9 @ 25 °C
VAPOUR PRESSURE	1170 Pa @ 25 °C	VISCOSITY	7.9 cps @ 25 °C
FLASH POINT (°C)	30 CC (Closed cup).	AUTO IGNITION	290
		TEMPERATURE (°C)	
PARTITION COEFFICIENT (N-Octanol/Water)	ND		

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid contact with UV radiation.

POLYMERISATION DESCRIPTION

Polymerises easily with evolution of heat. Keep cool.

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**GENERAL INFORMATION**

Knowledge about health hazard is incomplete. Possible reproductive impact.

INHALATION

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

INGESTION

May cause nausea, headache, dizziness and intoxication.

SKIN CONTACT

May be absorbed through the skin. Prolonged and frequent contact may cause redness and irritation. Acts as a defatting agent on skin. May cause cracking of skin, and eczema. May cause sensitisation by skin contact.

EYE CONTACT

Irritation of eyes and mucous membranes.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

There are no data on the ecotoxicity of this product. Volatile organic compounds (VOC): 50-75%.

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

No data available on bioaccumulation.

DEGRADABILITY

There are no data on the degradability of this product.

WATER HAZARD CLASSIFICATION

WGK: ND.

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.

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WASTE CLASS

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

14 TRANSPORT INFORMATION



UK ROAD CLASS	3		
PROPER SHIPPING NAME	PRINTING INK		
UN NO. ROAD	1210	UK ROAD PACK GR.	III
ADR CLASS NO.	3	ADR PACK GROUP	III
HAZARD No. (ADR)	30	HAZCHEM CODE	3Y
CEPIC TEC(R) NO.	ND	RID CLASS NO.	3
RID PACK GROUP	III	UN NO. SEA	1210
IMDG CLASS	3	IMDG PACK GR.	III
MARINE POLLUTANT	No.	UN NO. AIR	1210
AIR CLASS	3	AIR PACK GR.	III

15 REGULATORY INFORMATION

LABELLING



Harmful

CONTAINS	DIPENTAERYTHRITOL PENTA/HEXYL ACRYLATE
	DIPHENYL (2,4,6-TRIMETHYLBENZOYL) PHOSPHINE OXIDE
	HEXAMETHYLENE DIACRYLATE

RISK PHRASES	
R10	Flammable.
R36	Irritating to eyes.
R43	May cause sensitisation by skin contact.
R62	Possible risk of impaired fertility.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES	
S25	Avoid contact with eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S51	Use only in well-ventilated areas.
S36/37	Wear suitable protective clothing and gloves.
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.

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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. 22.993

RISK PHRASES IN FULL

R10	Flammable.
R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.

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.