



SAFETY DATA SHEET

22.351: Pelikan black oil ink for Xaar printhead

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

PRODUCT NAME	22.351: Pelikan black oil ink for Xaar printhead		
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	MANUFACTURER	Pelikan Hardcopy Production AG Gewerbestrasse 9 CH-8132 Egg/ZH Switzerland +41 (0) 44 986 1111
EMERGENCY TELEPHONE	+41 (0) 44 986 1111 (available only during office hours)		

2 HAZARDS IDENTIFICATION

Not regarded as a health or environmental hazard under current legislation.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
DISTILLATES (PETROLEUM), HYDROTREATED MIDDLE; GASOIL - UNSPECIFIED	265-148-2	64742-46-7	60-100%	Xn;R65. R66.

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

COMPOSITION COMMENTS

This ink does not contain: Substances of Very High Concern (SVHC). The current Candidate List of SVHC for Authorisation can be found (in English only) on the European Chemicals Agency (ECHA) website: http://echa.europa.eu/chem_data/candidate_list_table_en.asp.

4 FIRST-AID MEASURES

GENERAL INFORMATION

Remove victim immediately from source of exposure. If breathing stops, provide artificial respiration. Get medical attention immediately!

INHALATION

Remove victim immediately from source of exposure. Do not induce vomiting! Never make an unconscious person vomit or drink fluids! Provide rest, warmth and fresh air. Get medical attention immediately.

INGESTION

Remove victim immediately from source of exposure. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Get medical attention immediately!

SKIN CONTACT

Remove victim immediately from source of exposure. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention promptly if symptoms occur after washing.

EYE CONTACT

Remove victim immediately from source of exposure. Promptly wash eyes with plenty of water while lifting the eye lids. Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Fire can be extinguished using: Foam. Dry chemicals, sand, dolomite etc. DO NOT use water if avoidable.

SPECIAL FIRE FIGHTING PROCEDURES

Avoid water in straight hose stream; will scatter and spread fire. Containers close to fire should be removed immediately or cooled with water. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

UNUSUAL FIRE & EXPLOSION HAZARDS

Vapours are heavier than air and may spread near ground to sources of ignition.

22.351: Pelikan black oil ink for Xaar printhead**SPECIFIC HAZARDS**

By fire, toxic gases may be formed (COx, NOx).

PROTECTIVE MEASURES IN FIRE

Wear full protective clothing.

6 ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS**

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. If leakage cannot be stopped, evacuate area. Avoid inhalation of vapours. Avoid contact with skin and eyes.

ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

SPILL CLEAN UP METHODS

Wear necessary protective equipment. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Keep combustibles away from spilled material. Stop leak if possible without risk. Do not contaminate water sources or sewer. Absorb in vermiculite, dry sand or earth and place into containers.

7 HANDLING AND STORAGE**USAGE PRECAUTIONS**

Keep away from heat, sparks and open flame. Storage tanks and other containers must be grounded. Static electricity and formation of sparks must be prevented. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Avoid spilling, skin and eye contact. Handle and open container with care. Risk of excess pressure build-up.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Protect from light, including direct sunrays. Ground container and transfer equipment to eliminate static electric sparks. Avoid contact with oxidising agents.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
DISTILLATES (PETROLEUM), HYDROTREATED MIDDLE; GASOIL - UNSPECIFIED	WEL		5 mg/m ³		10 mg/m ³	

WEL = Workplace Exposure Limit.

PROTECTIVE EQUIPMENT**ENGINEERING MEASURES**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded.

RESPIRATORY EQUIPMENT

Wear full face mask supplied with: Gas cartridge suitable for organic substances.

HAND PROTECTION

Protective gloves must be used if there is a risk of direct contact or splash. Use protective gloves made of: Nitrile. Viton rubber (fluor rubber). 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

Wear approved safety goggles.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin.

9 PHYSICAL AND CHEMICAL PROPERTIES**APPEARANCE**

Liquid

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COLOUR	Black		
ODOUR	Characteristic Hydrocarbon		
SOLUBILITY	Immiscible with water		
RELATIVE DENSITY	0.88 @ 25 °C	VAPOUR PRESSURE	< 0.0001 kPa @ 25 °C
pH-VALUE, CONC. SOLUTION	NA	VISCOSITY	10.8 cSt @ 25 °C
FLASH POINT (°C)	> 120 PM Closed cup.	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: Strong oxidising agents.

HAZARDOUS POLYMERISATION

Not relevant.

MATERIALS TO AVOID

No incompatible groups noted.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrous gases (NO_x).

11 TOXICOLOGICAL INFORMATION**INHALATION**

High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting. Anaesthetic in high concentrations. Central nervous system depression.

INGESTION

May irritate and cause stomach pain, vomiting and diarrhoea.

SKIN CONTACT

Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

EYE CONTACT

Vapour or spray may cause temporary (reversible) eye damage.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

Volatile organic compounds (VOC): < 10%.

MOBILITY

The product is immiscible with water and will spread on the water surface. Large volumes may penetrate soil and contaminate groundwater.

DEGRADABILITY

The product is degraded completely by photochemical oxidation.

ACUTE FISH TOXICITY

The product is not expected to be toxic to aquatic organisms.

WATER HAZARD CLASSIFICATION

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

13 DISPOSAL CONSIDERATIONS**GENERAL INFORMATION**

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. Disposal should be in accordance with local, state or national legislation.

DISPOSAL METHODS

Recover and reclaim or recycle, if practical. Do not allow runoff to sewer, waterway or ground. Incinerate in suitable combustion chamber. Dispose of waste and residues in accordance with local authority requirements.

WASTE CLASS

List of Wastes (ref: Decision 2000/532/EC): 08 03 12*. Properties of wastes which render them hazardous (ref: Dir 91/689/EEC Ann III): H5.

14 TRANSPORT INFORMATION

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GENERAL

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

15 REGULATORY INFORMATION

RISK PHRASES

NC Not classified.

SAFETY PHRASES

P13 Safety data sheet available for professional user on request.

UK REGULATORY REFERENCES

Health and Safety at Work Act 1974. Petroleum (Consolidation) Act, as amended 1984 SI 1244.

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. All components are pre-registered at the European Chemicals Agency (ECHA). This Safety Data Sheet satisfies the requirements of the REACH Regulation (EC): No 1907/2006, as corrected. Article 31. The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents. 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. 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): 3 15 16

REVISION DATE E / 08.01.10

SDS NO. 22.351

RISK PHRASES IN FULL

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

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.