



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of the preparation HP ElectroInk Mark 4.0 Calibration Liquid
Calibration Liq4.0

Use of the preparation For use with HP Indigo Press series 3000 & 4000

Manufacturer information Hewlett Packard Company
Limburglaan 5
6221 SH Maastricht, The Netherlands

Hewlett-Packard health effects line

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Date prepared Dec 21, 2006

MSDS number 156729

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component/substance	CAS number	% by weight
Petroleum hydrocarbon	90622-58-5	< 100
Composition comments	This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).	

3. HAZARDS IDENTIFICATION

Emergency overview Contact with skin and eyes may result in irritation.

Acute health effects Any potential hazards are presumed to be due to exposure to the components.

Skin contact

Petroleum hydrocarbon
Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Eye contact

Contact with eyes may cause irritation. High concentration of product vapors can cause severe irritation of eyes.

Petroleum hydrocarbon
Slightly irritating but does not injure eye tissue. Direct contact with the eye may cause discomfort and redness.

Inhalation

Petroleum hydrocarbon
Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Ingestion

Ingestion of this product may cause nausea, vomiting and diarrhea.
Harmful if swallowed.

Petroleum hydrocarbon
Small amounts of this product, if aspirated into the lungs, may cause mild to severe pulmonary injury.

Potential health effects

Routes of exposure Potential routes of exposure to this product are skin and eye contact, ingestion and inhalation.



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Chronic health effects	Prolonged or repeated skin contact may cause skin irritation or allergic skin sensitization reaction.
Carcinogenicity	None of the components present in this formulation at concentrations equal to or greater than 0.1% are listed by EU, MAK, IARC, NTP or OSHA.

4. FIRST AID MEASURES

First aid procedures

Skin	Wash affected areas thoroughly with mild soap and water. Immediately take off all contaminated clothing. Wash clothing separately before reuse. Get medical attention if irritation develops or persists.
Eye	Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention. Do not apply neutralizing agents.
Inhalation	If overcome by vapor, remove person from exposure to fresh air. If breathing is difficult, give oxygen. If symptoms persist, get medical attention.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. If ingestion of a large amount does occur, seek medical attention.

5. FIRE FIGHTING MEASURES

Flash point and method	> 64 °C (based on petroleum hydrocarbon); Pinsky-Martens Closed Cup
Auto ignition temperature	> 200 °C (based on petroleum hydrocarbon)
Hazardous combustion products	Refer to section 10.
Extinguishing media	Suitable extinguishing media: Dry chemical, CO2, water spray or regular foam.
Unsuitable extinguishing media	None known.
Fire fighting equipment/instructions	Move containers from fire area if you can do it without risk. Evacuate area and fight fire from a safe distance.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear appropriate personal protective equipment.
Environmental precautions	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
Procedures if material is released or spilled	Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other sealed container. Dispose of in compliance with federal, state, and local regulations. See also section 13 Disposal considerations.
Evacuation procedures	In case of large spills, follow all facility emergency response procedures.

7. HANDLING AND STORAGE

Handling	Avoid prolonged or repeated skin contact with this material. Avoid contact with skin, eyes and clothing. Keep away from open flames, hot surfaces and sources of ignition. Do not reuse the empty container. Take precautionary measures against static discharges.
Storage	Keep away from excessive heat or cold. Store in a cool and shaded area. Do not store in direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values	Manufacturer recommended exposure limit based on petroleum hydrocarbon at > 95%. TWA = 171ppm (1200 mg/m3).
Personal protective equipment	
General	Use personal protective equipment to minimize exposure to skin and eye.



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Hygiene measures Handle in accordance with good industrial hygiene and safety practice.
Exposure guidelines Use in a well ventilated area.

9. PHYSICAL & CHEMICAL PROPERTIES

Boiling point 188 °C (based on petroleum hydrocarbon)
Specific gravity 0.77 g/mL
VOC content 760 g/L
Flash point > 64 °C (based on petroleum hydrocarbon)
Appearance liquid
Odor mild hydrocarbon-like
Oxidizing properties Not applicable

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Stability Stable under recommended storage conditions.
Hazardous polymerization Will not occur.
Hazardous decomposition products Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Incompatibility This product may react with strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

No data is available on the product itself.
Refer to Section 3 for potential health effects and Section 4 for first aid measures.

12. ECOLOGICAL INFORMATION

Aquatic toxicity This product has not been tested for ecological effects.

13. DISPOSAL CONSIDERATIONS

Disposal instructions Dispose of in compliance with federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

General Not a regulated article under United States DOT, IATA, ADR, IMDG, or RID.

IATA

Proper shipping name Not applicable
Hazard class Not applicable
Packaging exceptions none
Identification number (UN) none
Packing group none

15. REGULATORY INFORMATION

International regulations All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.



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US federal regulations

US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.

US TSCA 12(b): Does not contain listed chemicals.

HMIS ratings

Health: 1
Flammability: 2
Physical hazard: 0

NFPA ratings

Health: 1
Flammability: 2
Instability: 0

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Hazard categories Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

16. OTHER INFORMATION**Other information**

This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

Issue date

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Revision

2

Replaces sheet dated

Jul 20 2006 4:04PM

Disclaimer

This Safety Data Sheet document is provided without charge to customers of Hewlett-Packard Company. Data is the most current known to Hewlett-Packard Company at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.

MSDS sections updated

1. Chemical Product and Company Identification: Identification of the preparation
1. Chemical Product and Company Identification: Use of the preparation
5. Fire Fighting Measures: Extinguishing media
14. Transportation Information: General



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Explanation of abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
COC	Cleveland Open Cup
DOT	Department of Transportation
EPCRA	Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation and Recovery Act
REC	Recommended
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act of 1986
STEL	Short-Term Exposure Limit
TCLP	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds