



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name HP ElectroInk® Calibration Liquid
Calibration Liquid

Use of the preparation For use with HP Indigo Press series 1000&2000

Version # 03

Revision date 03-04-2009

Product use ink for digital press series 1000 and 2000

Company identification Hewlett-Packard Company
3000 Hanover Street
Palo Alto, CA 94304-1185
United States
Telephone 650-857-1501

Hewlett-Packard health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-503-494-7199
HP Customer Care Line
(Toll-free within the US) 1-800-474-6836
(Direct) 1-208-323-2551
Email: hpcustomerinquiries@hp.com

Date prepared Mar 03, 2009

MSDS number 346685

2. 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 *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 *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.

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.

Other information This product is classified for health effects according to EU Directive 1999/45/EC with R65, 66.

3. Composition / Information on Ingredients

Component/substance	CAS number	% by weight
Petroleum hydrocarbon	90622-58-5	< 100

Material name CALIBRATION LIQUID

Creation date Apr 30, 2003

Version number 3

MSDS US

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Composition comments

This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).

4. First Aid Measures

First aid procedures

Eye contact

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.

Skin contact

Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.

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

> 147.2 °F (> 64 °C) (based on petroleum hydrocarbon); Pensky-Martens Closed Cup

Hazardous combustion products

Refer to section 10.

Extinguishing media

Suitable extinguishing media

Suitable extinguishing media: Dry chemical, CO₂, water spray or regular foam.

Unsuitable extinguishing media

None known.

Protection of firefighters

Specific hazards arising from the chemical

None known.

Protective equipment and precautions for firefighters

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.

Other information

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.

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. 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 guidelines

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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General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance	liquid
Color	clear
Odor	mild hydrocarbon-like
Odor threshold	Not available.
Physical state	Solid.
pH	Not available.
Melting point	Not available.
Freezing point	Not available.
Boiling point	370.4 °F (188 °C) (based on petroleum hydrocarbon)
Flash point	> 147.2 °F (> 64 °C) (based on petroleum hydrocarbon); Pensky-Martens Closed Cup
Evaporation rate	Not available.
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity	0.77 g/mL
Relative density	Not available.
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	> 392 °F (> 200 °C) (based on petroleum hydrocarbon)
Decomposition temperature	Not available.
VOC	760 g/L

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under recommended storage conditions.
Incompatible materials	This product may react with strong oxidizing agents.
Hazardous decomposition products	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Toxicological information	Refer to Section 3 for potential health effects and Section 4 for first aid measures.
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12. Ecological Information

Aquatic toxicity	This product has not been tested for ecological effects.
Persistence and degradability	Not available.



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13. Disposal Considerations

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

14. Transport Information

IATA

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

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

15. Regulatory Information

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.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

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.

16. Other Information

HMIS® ratings Health: 1
Flammability: 2
Physical hazard: 0

NFPA ratings Health: 1
Flammability: 2
Instability: 0

Issue date Mar 3 2009 8:36PM

Revision 3

Replaces sheet dated Jan 10 2007 9:20PM

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.



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MSDS sections updated

Hazards Identification: Other information

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

Manufacturer information

Hewlett-Packard Indigo BV
Renier Nafzgerstraat 100
6221 KL Maastricht
The Netherlands
(Direct) 1-503-494-7199
(Toll-free within the US) 1-800-457-4209