



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of the preparation HP ElectroInk® Blue 044
MPS-2444-11

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

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

Hewlett-Packard health effects line

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General information telephone number

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Date prepared Aug 14, 2006

MSDS number 161824

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component/substance	CAS number	% by weight
Petroleum hydrocarbon	90622-58-5	< 100
Trade Secret	Proprietary	< 5
Trade Secret blue colorant	Proprietary	< 1

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).

Trade Secret blue colorant
Contact with skin may result in irritation.

Eye contact

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

Trade Secret blue colorant
Contact with eyes may result in irritation.

Inhalation

As a paste, the risk for lung damage is unlikely.

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



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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.

4. FIRST AID MEASURES

First aid procedures

Skin

Wash affected areas thoroughly with mild soap and water. 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); Pensky-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. Take precautionary measures against static discharges.



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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 > 90%. TWA = 171ppm (1200 mg/m3).

OSHA - Final PELs - Time Weighted Averages (TWAs)

Trade Secret blue colorant Proprietary 0.1 mg/m3 TWA (fume); 1 mg/m3 TWA (dusts and mists)

ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

Trade Secret blue colorant Proprietary 0.2 mg/m3 TWA (fume); 1 mg/m3 TWA (dusts and mists, as Cu)

Personal protective equipment

General Use personal protective equipment to minimize exposure to skin and eye.

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 0.823 g/mL

VOC content 660 g/L

Flash point > 64 °C (based on petroleum hydrocarbon)

Appearance Paste

Odor mild hydrocarbon-like

Oxidizing properties Not applicable

Color blue

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Stability Stable under recommended storage conditions.
Azodyes when processed to printing inks, paints and plastics, begin to decompose at 390°F (200°C) and 3, 3'-dichlorobenzidine can also be formed at /above 390°F (200°C). This product is not recommended for applications where this temperature is obtained/ exceeded.

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

The ink formulation has not been tested.

Refer to Section 3 for potential health effects and Section 4 for first aid measures.

Symptoms and target organs

NIOSH - Pocket Guide - Target Organs

Trade Secret blue colorant Proprietary dusts and mists: respiratory system, skin, liver, kidneys, eyes (increased risk with Wilson's disease); fume: respiratory system, skin, eyes, (increased risk with Wilson's disease)



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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.

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/SARA - Hazardous Substances and their Reportable Quantities

Trade Secret blue colorant	Proprietary	final RQ = 5000 pounds (2270 kg) (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is equal to or exceeds 0.004 inches)
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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
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Section 311 hazardous chemical	Yes
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Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
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16. OTHER INFORMATION

Other information	This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).
Issue date	Aug 14 2006 2:52PM
Revision	2
Replaces sheet dated	Feb 1 2006 11:19AM
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 10. Chemical Stability & Reactivity Information: Stability 14. Transportation Information: General
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