



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of the preparation HP ElectroInk® Red 097
MPS-2525-12

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

Manufacturer information Hewlett Packard Company
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6221 SH Maastricht, The Netherlands

Hewlett-Packard health effects line

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Date prepared Oct 10, 2006

MSDS number 185242

2. COMPOSITION / INFORMATION ON INGREDIENTS

| Component/substance | CAS number | % by weight |
|-----------------------------|---|-------------|
| Petroleum hydrocarbon | 90622-58-5 | < 100 |
| Trade Secret | Proprietary | < 5 |
| C.I.P.O. 34 No.21115 | 15793-73-4 | < 1 |
| C.I.P.R. 146 No.12485 | 5280-68-2 | < 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).

Eye contact

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

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.

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.



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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. |
| Other information | All pigments are resin coated and therefore, there is no azodye exposure in normal use. |

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); 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

| | |
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| 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. |
| Storage | Keep away from excessive heat or cold. Store in a cool and shaded area. Do not store in direct sunlight. |



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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| Exposure limit values | Manufacturer recommended exposure limit based on petroleum hydrocarbon at > 90%. TWA = 171ppm (1200 mg/m ³). |
| 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 | 0.839 g/mL |
| VOC content | 655 g/L |
| Flash point | > 64 °C (based on petroleum hydrocarbon) |
| Appearance | Paste |
| Odor | mild hydrocarbon-like |
| Oxidizing properties | Not applicable |
| Color | red |

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

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|---|--|
| 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

The ink formulation has not been tested.
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

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|------------------------------|--|
| 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 |



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15. REGULATORY INFORMATION

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| 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. |
| 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 | Oct 10 2006 6:58PM |
| Revision | 3 |
| Replaces sheet dated | Sep 13 2006 11:20AM |
| 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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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 |