



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

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| Identification of the preparation | CE037Series |
| Synonym(s) | Matte Black Ink |
| Product use | Inkjet printing |
| Version # | 06 |
| Revision date | 05-Nov-2010 |
| 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: hpcustomer.inquiries@hp.com |

2. Hazards Identification

| | |
|---------------------------------|--|
| Emergency overview | Contact with skin and eyes may result in irritation. Ingestion may result in nausea, vomiting and diarrhea. |
| Acute health effects | Any potential hazards are presumed to be due to exposure to the components. |
| Skin contact | <i>1,5-pentanediol</i> Contact with skin may result in irritation. <i>2-pyrrolidone</i> Contact with skin may result in irritation. <i>Ethyl alkyldiol</i> Contact with skin may result in mild irritation. |
| Eye contact | <i>1,5-pentanediol</i> Contact with eyes may result in irritation. <i>2-pyrrolidone</i> Contact with eyes may result in irritation. <i>Ethyl alkyldiol</i> Contact with eyes may result in mild irritation. |
| Inhalation | <i>2-pyrrolidone</i> Inhalation may result in respiratory irritation. |
| Ingestion | <i>2-pyrrolidone</i> Ingestion may result in nausea, vomiting and diarrhea. |
| Potential health effects | |
| Routes of exposure | Potential routes of overexposure to this product are skin and eye contact Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use conditions. Complete toxicity data are not available for this specific formulation |
| Chronic health effects | None known. |
| 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. |

3. Composition / Information on Ingredients

| Components | CAS # | Percent |
|-----------------|-------------|---------|
| Water | 7732-18-5 | < 80 |
| 2-pyrrolidone | 616-45-5 | < 15 |
| 1,5-pentanediol | 111-29-5 | < 2.5 |
| Ethyl alkyldiol | Proprietary | < 2.5 |

Composition comments This ink supply contains an aqueous ink formulation. This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).

4. First Aid Measures

First aid procedures

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| 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. |
| Skin contact | Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention. |
| Inhalation | Move to fresh air. If symptoms persist, get medical attention. |
| Ingestion | If ingestion of a large amount does occur, seek medical attention. |

5. Fire Fighting Measures

Flammable properties Combustion generates toxic fumes of fluorides/fluorine compounds.

Extinguishing media

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| Suitable extinguishing media | CO2, water, dry chemical, or foam |
| Unsuitable extinguishing media | None known. |

Specific methods None established.

Hazardous combustion products Refer to section 10.

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 contact with skin, eyes and clothing.

Storage Keep out of the reach of children. Keep away from excessive heat or cold. Store away from strong oxidizers.

8. Exposure Controls / Personal Protection

Exposure guidelines Exposure limits have not been established for this product.

Engineering controls Use in a well ventilated area.

Personal protective equipment

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

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

9. Physical & Chemical Properties

Appearance Not available.

Color Black.

Odor Not available.

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| Odor threshold | Not available. |
| Physical state | Liquid |
| Form | Not available. |
| pH | 9.2 |
| Melting point | Not available. |
| Freezing point | Not available. |
| Boiling point | Not determined |
| Flash point | > 200 °F (> 93.3 °C) Pensky-Martens Closed Cup |
| Evaporation rate | Not determined |
| Flammability limits in air, upper, % by volume | Not available. |
| Flammability limits in air, lower, % by volume | Not determined |
| Vapor pressure | Not determined |
| Vapor density | Not available. |
| Specific gravity | 1 - 1.1 |
| Relative density | Not available. |
| Solubility (water) | Soluble in water |
| Auto-ignition temperature | Not determined |
| Decomposition temperature | Not available. |
| VOC | < 240 g/l |
| Other information | VOC content (less water, less exempt compounds) = < 958 g/L (U.S. requirement, not for emissions) |

10. Chemical Stability & Reactivity Information

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| Chemical stability | Stable under recommended storage conditions. |
| Incompatible materials | Incompatible with strong bases and oxidizing agents. |
| Hazardous decomposition products | Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. hydrogen fluoride, fluorinated hydrocarbons |
| Possibility of hazardous reactions | Will not occur. |

11. Toxicological Information

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| Serious eye damage/eye irritation | Not available. |
| Skin sensitization | Not available. |
| Further information | This ink formulation has not been tested for toxicological effects. Refer to Section 2 for potential health effects and Section 4 for first aid measures. |

12. Ecological Information

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|--------------------------------------|--------------------------------------|
| Aquatic toxicity | LC50/96h/Fathead minnows => 750 mg/L |
| Persistence and degradability | Not available. |

13. Disposal Considerations

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| Disposal instructions | Dispose of in compliance with federal, state, and local regulations. HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service is available in your location, please visit http://www.hp.com/recycle . |
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14. Transport Information

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| Further information | Not a dangerous good under United States DOT, IATA, ADR, IMDG, or RID. |
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DOT

Not regulated as dangerous goods.

IATA

Basic shipping requirements:

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|-----------------------------|----------------|
| Proper shipping name | Not applicable |
|-----------------------------|----------------|

Hazard class Not applicable
UN number None
Packing group N/A
Additional information:
Packaging exceptions None

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

15. Regulatory Information

CERCLA (Superfund) reportable quantity

None

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 No
hazardous chemical

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

Section 302 extremely hazardous substance No

Section 311 hazardous chemical No

State regulations

US - Pennsylvania RTK - Hazardous Substances: Listed substance

2-pyrrolidone (CAS 616-45-5)

Listed.

Regulatory information 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

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

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

NFPA ratings Health: 1
Flammability: 1
Instability: 0

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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This data sheet contains changes from the previous version in section(s): Regulatory Information: United States

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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 |