

C9404Series[C]-SDS_UK-EU English-06.pdf

C9404Series[MB]-SDS_UK-EU English-10.pdf



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the preparation C9404Series[C]
Use of the Substance/Preparation Inkjet printing
Version # 03
Revision date 25-Feb-2011
Company identification Hewlett-Packard, Ltd.
Cain Road, Amen Corner
Bracknell, Berkshire, RG12 1HN
Telephone 1 344 36-0000

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Poison Information Center 0207771 5307

2. HAZARDS IDENTIFICATION

Emergency Overview Contact with skin and eyes may result in irritation. Ingestion may result in nausea, vomiting and diarrhea. May cause sensitization of susceptible persons.

Acute health effects

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

Skin contact

2-pyrrolidone
Contact with skin may result in irritation.
Alkyldiol
Contact with skin may result in irritation.
Polymer 683-K salt
Contact with skin may result in irritation.

Eye contact

2-pyrrolidone
Contact with eyes may result in irritation.
Alkyldiol
Contact with eyes may result in irritation.
Polymer 683-K salt
Contact with eyes may result in irritation.

Inhalation

2-pyrrolidone
Inhalation may result in respiratory irritation.
Alkyldiol
Inhalation may result in respiratory irritation.

Ingestion

2-pyrrolidone
Ingestion may result in nausea, vomiting and diarrhea.
Diethylene glycol
Harmful if swallowed. May cause kidney and liver damage. May depress the central nervous system.
Polymer 683-K salt
Swallowing large amounts may cause digestive discomfort. 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. |
| Other information | This cyan ink is not classified according to EU Directive 1999/45/EC. |
| Classification | Not classified. |
| Physical hazards | Not classified as a physical hazard. |
| Health hazards | Not classified as a health hazard. |
| Environmental hazards | Not classified as an environmental hazard. |

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS # | Percent | EC-No. | Classification |
|--------------------|-------------|---------|-------------|----------------|
| Water | 7732-18-5 | 70 - 80 | 231-791-2 | |
| 2-pyrrolidone | 616-45-5 | 5 - 7.5 | 210-483-1 | Xi;R36/38 |
| Diethylene glycol | 111-46-6 | 5 - 7.5 | 203-872-2 | Xn;R22 |
| Alkyldiol | Proprietary | 2.5 - 5 | Proprietary | |
| Triethanolamine | 102-71-6 | < 1.5 | 203-049-8 | Xi;R36/38 |
| Polymer 683-K salt | | < 2.5 | | |

Composition comments This ink supply contains an aqueous ink formulation. This product has been evaluated using criteria specified in the EU Directives 67/548/EEC and 1999/45/EC, as amended. For the full text of the R phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

| | |
|---------------------|---|
| Inhalation | Move to fresh air. If symptoms persist, get medical attention. |
| Skin contact | Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention. |
| 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. |
| Ingestion | If material is ingested, immediately contact a physician or poison control centre. |

5. FIRE-FIGHTING MEASURES

| | |
|--|---|
| Suitable extinguishing media | CO2, water, dry chemical, or foam |
| Extinguishing media which must not be used for safety reasons | None known. |
| Unusual fire & explosion hazards | Combustion generates toxic fumes of fluoride/fluorine compounds; aldehydes, ketones, acetylene. |
| 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 limit values

United Kingdom

| Components | Type | Value |
|------------------------------|------|-------------|
| Diethylene glycol (111-46-6) | TWA | 23.0000 ppm |

| Components | Type | Value |
|---------------------------------------|---|----------------|
| | | 101.0000 mg/m3 |
| Additional exposure data | Exposure limits have not been established for this product. | |
| Exposure controls | Use in a well ventilated area. | |
| Occupational exposure controls | | |
| General | Use personal protective equipment to minimize exposure to skin and eye. | |
| Hygiene measures | Handle in accordance with good industrial hygiene and safety practice. | |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--|
| Appearance | Not available. |
| Physical state | Liquid |
| Form | Not available. |
| Color | Cyan |
| Odor | Not available. |
| Odour threshold | Not available. |
| pH | 9.4 |
| Boiling point | Not determined |
| Flash point | > 93.3 °C (> 200 °F) Pensky-Martens Closed Cup |
| Flammability limits in air, upper, % by volume | Not available. |
| Flammability limits in air, lower, % by volume | Not determined |
| Vapor pressure | Not determined |
| Relative density | Not available. |
| Solubility (water) | Soluble in water |
| Partition coefficient (n-octanol/water) | Not available |
| Viscosity | Not available. |
| Vapor density | Not available. |
| Evaporation rate | Not determined |
| Melting point | Not available. |
| Freezing point | Not available. |
| Auto-ignition temperature | Not determined |
| Specific gravity | 1 - 1.1 |
| VOC | < 236 g/l |

10. STABILITY AND REACTIVITY

| | |
|---|---|
| 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, aldehydes, ketones |
| Stability | Stable under recommended storage conditions. |
| Materials to avoid | Incompatible with strong bases and oxidizing agents. |
| Hazardous polymerization | Will not occur. |

11. TOXICOLOGICAL INFORMATION

| | |
|--|---|
| 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 aide measures. |

12. ECOLOGICAL INFORMATION

| | |
|-------------------------|-------------------------------------|
| Aquatic toxicity | LC50/96h/Fathead minnows =>750 mg/L |
|-------------------------|-------------------------------------|

13. DISPOSAL CONSIDERATIONS

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>.

14. TRANSPORT INFORMATION

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

ADR

Not regulated as dangerous goods.

IATA

| | |
|-----------------------------|----------------|
| Proper shipping name | Not applicable |
| Hazard class | Not applicable |
| UN number | none |
| Packing group | N/A |
| Packaging exceptions | N/A |

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

15. REGULATORY INFORMATION

Labeling

| | |
|-----------------|---|
| Contains | 2-pyrrolidone, Alkyldiol, Diethylene glycol, Polymer 683-K salt, Triethanolamine, Water |
| EC Label | This product does not require a label according to EU Directive 1999/45/EC. |

Regulatory information All chemical substances in this product are notified or exempt from notification under chemical substance notification laws in the following countries: Australia, Canada, European Union, Japan, New Zealand, Switzerland, and USA..

16. OTHER INFORMATION

Wording of the R-phrases in sections 2 and 3 R22 Harmful if swallowed.
R36/38 Irritating to eyes and skin.

Other information This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC.

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.

Issue date 25-Feb-2011

This data sheet contains changes from the previous version in section(s): PHYSICAL AND CHEMICAL PROPERTIES: Color
PHYSICAL AND CHEMICAL PROPERTIES: Other information

Manufacturer information Hewlett-Packard Company
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Corvallis, OR 97330-4239 US
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(Toll-free within the US) 1-800-457-4209

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 |



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the preparation C9404Series[MB]
Synonym(s) Matte Black ink
Use of the Substance/Preparation Inkjet printing
Version # 05
Revision date 25-Feb-2011
Company identification Hewlett-Packard, Ltd.
Cain Road, Amen Corner
Bracknell, Berkshire, RG12 1HN
Telephone 1 344 36-0000

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Email: hpcustomer.inquiries@hp.com
Poison Information Center 0207771 5307

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

Skin contact Any potential hazards are presumed to be due to exposure to the components.

1,5-pentanediol

Contact with skin may result in irritation.

2-pyrrolidone

Contact with skin may result in irritation.

Ethyl alkyldiol

Contact with skin may result in mild irritation.

Eye contact

1,5-pentanediol

Contact with eyes may result in irritation.

2-pyrrolidone

Contact with eyes may result in irritation.

Ethyl alkyldiol

Contact with eyes may result in mild irritation.

Inhalation

2-pyrrolidone

Inhalation may result in respiratory irritation.

Ingestion

2-pyrrolidone

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.

Other information

This black ink is not classified according to EU Directive 1999/45/EC.

Classification

Not classified.

Physical hazards

Not classified as a physical hazard.

| | |
|------------------------------|--|
| Health hazards | Not classified as a health hazard. |
| Environmental hazards | Not classified as an environmental hazard. |

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS # | Percent | EC-No. | Classification |
|-----------------|-------------|---------|-------------|----------------|
| Water | 7732-18-5 | 70 - 80 | 231-791-2 | |
| 2-pyrrolidone | 616-45-5 | 10 - 15 | 210-483-1 | Xi;R36/38 |
| 1,5-pentanediol | 111-29-5 | 1 - 2.5 | 203-854-4 | |
| Ethyl alkyldiol | Proprietary | 1 - 2.5 | Proprietary | |

Composition comments This ink supply contains an aqueous ink formulation.
This product has been evaluated using criteria specified in the EU Directives 67/548/EEC and 1999/45/EC, as amended.
For the full text of the R phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

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

5. FIRE-FIGHTING MEASURES

| | |
|--|---|
| Suitable extinguishing media | CO ₂ , water, dry chemical, or foam |
| Extinguishing media which must not be used for safety reasons | None known. |
| Unusual fire & explosion hazards | Combustion generates toxic fumes of fluorides/fluorine compounds. |
| 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

| | |
|---------------------------------------|---|
| Additional exposure data | Exposure limits have not been established for this product. |
| Exposure controls | Use in a well ventilated area. |
| Occupational exposure controls | |
| General | Use personal protective equipment to minimize exposure to skin and eye. |
| Hygiene measures | Handle in accordance with good industrial hygiene and safety practice. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------|----------------|
| Appearance | Not available. |
| Physical state | Liquid |
| Form | Not available. |
| Color | Black. |
| Odor | Not available. |
| Odour threshold | Not available. |

| | |
|---|--|
| pH | 9.2 |
| Boiling point | Not determined |
| Flash point | > 93.3 °C (> 200 °F) Pensky-Martens Closed Cup |
| Flammability limits in air, upper, % by volume | Not available. |
| Flammability limits in air, lower, % by volume | Not determined |
| Vapor pressure | Not determined |
| Relative density | Not available. |
| Solubility (water) | Soluble in water |
| Partition coefficient (n-octanol/water) | Not available |
| Viscosity | Not available. |
| Vapor density | Not available. |
| Evaporation rate | Not determined |
| Melting point | Not available. |
| Freezing point | Not available. |
| Auto-ignition temperature | Not determined |
| Specific gravity | 1 - 1.1 |
| VOC | < 240 g/l |

10. STABILITY AND REACTIVITY

| | |
|---|---|
| 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 |
| Stability | Stable under recommended storage conditions. |
| Materials to avoid | Incompatible with strong bases and oxidizing agents. |
| Hazardous polymerization | Will not occur. |

11. TOXICOLOGICAL INFORMATION

| | |
|--|---|
| 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 aide measures. |

12. ECOLOGICAL INFORMATION

| | |
|-------------------------|--------------------------------------|
| Aquatic toxicity | LC50/96h/Fathead minnows => 750 mg/L |
|-------------------------|--------------------------------------|

13. DISPOSAL CONSIDERATIONS

| | |
|------------------------------|---|
| 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 . |
|------------------------------|---|

14. TRANSPORT INFORMATION

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

ADR

Not regulated as dangerous goods.

IATA

| | |
|-----------------------------|----------------|
| Proper shipping name | Not applicable |
| Hazard class | Not applicable |
| UN number | None |
| Packing group | N/A |
| Packaging exceptions | None |

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

15. REGULATORY INFORMATION

Labeling

Contains 1,5-pentanediol, 2-pyrrolidone, Ethyl alkylidol, Water

EC Label This product does not require a label according to EU Directive 1999/45/EC.

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

Wording of the R-phrases in sections 2 and 3 R36/38 Irritating to eyes and skin.

Other information This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC.

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Issue date 25-Feb-2011

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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 |