



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product identifier C9403Series
Version # 04
Revision date 14-Nov-2014
Product use Inkjet printing
CAS # Mixture
Synonym(s) Matte Black Ink
Product use Inkjet printing
Manufacturer information Hewlett-Packard Company
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United States
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Company identification Hewlett-Packard (Canada) Co.
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2. Hazards Identification

Label elements

Hazard symbol None.
Signal word None.
Hazard statement Not available.
Precautionary statement
Prevention Not available.
Response Not available.
Storage Not available.
Disposal Not available.

Other hazards

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. Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

3. Composition / Information on Ingredients

| Hazardous components | CAS # | Percent |
|----------------------|----------|---------|
| 2-pyrrolidone | 616-45-5 | < 15 |
| Glycerol | 56-81-5 | <2.5 |

| Non-hazardous components | CAS # | Percent |
|---------------------------|-------------|---------|
| Water | 7732-18-5 | 70-80 |
| Modified Carbon Black #11 | Proprietary | <5 |

Composition comments This ink supply contains an aqueous ink formulation. The components of this product have been evaluated in accordance with the hazard criteria of the Canada Controlled Products Regulations.

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. |
| 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

| | |
|---|---|
| Flash point | > 200.0 °F (> 93.3 °C) Pensky-Martens Closed Cup |
| Flammable properties | Combustion generates toxic fumes of fluorides/fluorine compounds. |
| Extinguishing media | |
| Suitable extinguishing media | CO2, water, dry chemical, or foam |
| Unsuitable extinguishing media | None known. |
| Fire fighting equipment/instructions | Not available. |
| Specific methods | None established. |
| Explosion data | |
| Sensitivity to static discharge | Not available. |
| Sensitivity to mechanical impact | Not available. |
| 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. |
| Methods for cleaning up | Not available. |
| 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. |

8. Exposure Controls / Personal Protection

Occupational exposure limits

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

| Components | Type | Value | Form |
|------------------------|------|----------|-------|
| Glycerol (CAS 56-81-5) | TWA | 10 mg/m3 | Mist. |

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

| Components | Type | Value | Form |
|------------------------|------|---|---------------------------|
| Glycerol (CAS 56-81-5) | TWA | 3 mg/m ³ 10 mg/m ³ | Respirable mist. Mist. |

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

| Components | Type | Value | Form |
|------------------------|------|----------------------|-------|
| Glycerol (CAS 56-81-5) | TWA | 10 mg/m ³ | Mist. |

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

| Components | Type | Value | Form |
|------------------------|------|----------------------|-------|
| Glycerol (CAS 56-81-5) | TWA | 10 mg/m ³ | Mist. |

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | Type | Value | Form |
|------------------------|------|---|-------------------------------------|
| Glycerol (CAS 56-81-5) | PEL | 5 mg/m ³ 15 mg/m ³ | Respirable fraction. Total dust. |

Biological limit values No biological exposure limits noted for the ingredient(s).

Personal protective equipment**General**

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

Exposure guidelines

Exposure limits have not been established for this product.

Engineering controls

Use in a well ventilated area.

Personal protective equipment**Eye/face protection**

Not available.

Skin protection

Not available.

Respiratory protection

Not available.

9. Physical & Chemical Properties**Appearance****Physical state**

Not available.

Color

Black.

Odor

Not available.

Odor threshold

Not available.

pH

9.2

Vapor pressure

Not determined

Boiling point

Not determined

Melting point/Freezing point

Not available.

Solubility (water)

Soluble in water

Specific gravity

1 - 1.1

Flash point

> 200.0 °F (> 93.3 °C) Pensky-Martens Closed Cup

Flammability limits in air, upper, % by volume

Not available.

Flammability limits in air, lower, % by volume

Not determined

Auto-ignition temperature

Not determined

VOC

< 240 g/l

Evaporation rate

Not determined

Partition coefficient (n-octanol/water)

Not available.

Other data**Oxidizing properties**

Not determined

10. Chemical Stability & Reactivity Information**Chemical stability**

Stable under recommended storage conditions.

| | |
|---|---|
| Conditions to avoid | Not available. |
| 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

| | |
|---|---|
| Acute effects | Based on available data, the classification criteria are not met. |
| Skin irritation and corrosion | Based on available data, the classification criteria are not met. |
| Serious eye damage/eye irritation | Based on available data, the classification criteria are not met. |
| Respiratory or skin sensitization | |
| Skin sensitization | Based on available data, the classification criteria are not met. |
| Respiratory sensitization | Based on available data, the classification criteria are not met. |
| Carcinogenicity | Based on available data, the classification criteria are not met. |
| | Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a bound form in this preparation. |
| Germ cell mutagenicity | Based on available data, the classification criteria are not met. |
| Reproductive toxicity | Based on available data, the classification criteria are not met. |
| Specific target organ toxicity - single exposure | Based on available data, the classification criteria are not met. |
| Specific target organ toxicity - repeated exposure | Based on available data, the classification criteria are not met. |
| Aspiration hazard | Based on available data, the classification criteria are not met. |
| Further information | Complete toxicity data are not available for this specific formulation Refer to Section 2 for potential health effects and Section 4 for first aid measures. |

Toxicological data

| Components | Species | Test Results |
|------------------------------|------------|--------------|
| 2-pyrrolidone (CAS 616-45-5) | | |
| Acute | | |
| <i>Oral</i> | | |
| LD50 | Guinea pig | 6500 mg/kg |
| | Rat | 6500 mg/kg |

12. Ecological Information

| | |
|--------------------------------------|----------------|
| Ecotoxicity | Not available. |
| Environmental effects | Not available. |
| Aquatic toxicity | Not available. |
| Persistence and degradability | Not available. |

Partition coefficient

| | |
|---------------|-------|
| 2-pyrrolidone | -0.85 |
| Glycerol | -1.76 |

Ecotoxicological data

| Product | Species | Test Results |
|---------------------------|---------|--|
| C9403Series (CAS Mixture) | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Fish | LC50 | Fathead minnow (<i>Pimephales promelas</i>) > 750 mg/l, 96 hours |

| Components | Species | Test Results |
|------------------------------|---------|--|
| 2-pyrrolidone (CAS 616-45-5) | | |
| Aquatic | | |
| Crustacea | EC50 | Water flea (Daphnia pulex) |
| | | 13.21 mg/l, 48 hours |
| Glycerol (CAS 56-81-5) | | |
| Aquatic | | |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) |
| | | 51000 - 57000 mg/l, 96 hours |

13. Disposal Considerations

| | |
|------------------------------|---|
| Disposal instructions | Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental 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

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

ADR

Not regulated as dangerous goods.

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

15. Regulatory Information

WHMIS status Non-controlled

Other 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: 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.

Prepared by Not available.

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Manufacturer information

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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 |