

### 1. Product and Company Identification

Material name C4906A

Use of the preparation Inkjet printing

Version # 03

Revision date 20-Nov-2009
CAS # Mixture

Company identification Hewlett-Packard Company

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**United States** 

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Date prepared Nov 20, 2009 MSDS number 323906

#### 2. 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 2-pyrrolidone

Contact with skin may result in irritation.

Substituted diol

Contact with skin may result in irritation.

Tetraethylene glycol

Contact with skin may result in irritation.

**Eye contact** 2-pyrrolidone

Contact with eyes may result in irritation.

Substituted diol

Contact with eyes may result in irritation.

Tetraethylene glycol

Contact with eyes may cause irritation.

**Inhalation** 2-pyrrolidone

Inhalation may result in respiratory irritation.

Tetraethylene glycol

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

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Chronic health effects Carbon Black: Chronic inhalation studies performed with fine dust particles resulted in lung

tumors in animals. The IARC classification was based upon these results. IARC also concluded "there is inadequate evidence in humans for the carcinogenicity of carbon black." Inhalation of fine dust particles is not expected to occur during normal conditions of use of this

None of the components present in this formulation at concentrations equal to or greater than Carcinogenicity

0.1% are listed by EU, MAK, IARC, NTP or OSHA.

### 3. Composition / Information on Ingredients

Component/substance	CAS number	% by weight
Water	7732-18-5	> 70
2-pyrrolidone	616-45-5	< 20
Modified Carbon Black #11		< 5
Substituted diol	Proprietary	< 2.5
Tetraethylene glycol	112-60-7	< 2.5
Composition comments	This ink supply contains an aqueous ink formulation.	

omposition comments

This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard

Communication Standard).

#### 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.

Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation Skin contact

develops or persists.

Inhalation Remove 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 and method > 200 °F (> 93.3 °C); Setaflash Closed Tester

Refer to section 10. **Hazardous combustion** 

products

Flammable properties None known.

Extinguishing media

Suitable extinguishing Dry chemical, CO2, water spray or regular foam.

media

Unsuitable extinguishing media

Unusual fire and explosion

hazard

None known.

None known.

Special firefighting procedures

None established.

#### 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.

Soak up with inert absorbent material.

Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, Methods for containment

sand or diatomaceous earth, commercial sorbents, or recover using pumps.

Methods for cleaning up

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.

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7. Handling and Storage

Handling Avoid contact with skin, eyes and clothing.

Keep out of the reach of children. Keep away from excessive heat or cold. **Storage** 

8. Exposure Controls / Personal Protection

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

Personal protective equipment

General Use personal protective equipment to minimize exposure to skin and eye. Handle in accordance with good industrial hygiene and safety practice. General hygeine

considerations

9. Physical & Chemical Properties

Color Black

**Odor threshold** Not available. Not available. Physical state Hq 9.3 - 9.7**Melting point** Not available. Freezing point Not available. **Boiling point** Not determined

> 200 °F (> 93.3 °C); Setaflash Closed Tester Flash point

**Evaporation rate** Not determined Not available. **Flammability** Flammability limits in air, Not available.

upper, % by volume Flammability limits in air,

lower, % by volume

Not determined

Not determined Vapor pressure Vapor density > 1 (air = 1.0)

Specific gravity 1 - 1.2

Not available. Relative density Soluble in water Solubility (water) **Partition coefficient** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available.

VOC < 3 % > 2 cp **Viscosity** 

10. Chemical Stability & Reactivity Information

Stable under recommended storage conditions. **Chemical stability** Incompatible with strong bases and oxidizing agents. Incompatible materials

**Hazardous decomposition** 

products

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide,

carbon dioxide and/or low molecular weight hydrocarbons.

Possibility of hazardous

reactions

Will not occur.

## 11. Toxicological Information

Not available.

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12. Ecological Information

**Ecotoxicity** 96.00 hr, LC50 > 750 mg/l, fathead minnow (pimephales promelas)

Persistence and degradability Not available.

13. Disposal Considerations

Dispose of in compliance with federal, state, and local regulations. **Disposal instructions** 

> 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

**IATA** 

Not applicable Proper shipping name Hazard class Not applicable

**UN** number None Packing group N/A Packaging exceptions None

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

15. Regulatory Information

US TSCA 12(b): Contains sodium nitrite (CASRN 7632-00-0), subject to export notification **US federal regulations** 

**CERCLA (Superfund) reportable quantity** 

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

Section 311 hazardous

chemical

Yes

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.

State regulations

US - Pennsylvania RTK - Hazardous Substances: Listed substance

2-pyrrolidone (616-45-5) Listed.

16. Other Information

**HMIS®** ratings Health: 1

Flammability: 2 Physical hazard: 0

**NFPA** ratings Health: 1

Flammability: 2 Instability: 0

Nov 20 2009 6:55AM Issue date

Revision 3

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Replaces sheet dated May 28 2009 10:06AM

Manufacturer information Hewlett-Packard Company

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Other information This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation

(29 CFR 1910.1200).

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 14. Transport 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

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