

### 1. Product and Company Identification

Material name C4810A

Use of the preparation Inkjet printing

Version # 07

Revision date 22-May-2009
CAS # Mixture

Company identification Hewlett-Packard Company

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**United States** 

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Date prepared May 21, 2009

### 2. Hazards Identification

Emergency overview Contact with skin and eyes may result in irritation. 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.

**Eye contact** 2-pyrrolidone

Contact with eyes may result in 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 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

ink

Carcinogenicity Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly

carcinogenic to humans).. None of the other ingredients in this preparation are classified as

carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

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Component/substance	CAS number	% by weight
Water	7732-18-5	< 80
2-pyrrolidone	616-45-5	< 10
Carbon black	1333-86-4	< 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		
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, seel	k medical attention.
5. Fire Fighting Measures		
Flash point and method	> 200 °F (> 93.3 °C); Pensky-Martens Closed Cup	
Hazardous combustion products	Refer to section 10.	
Flammable properties	None known.	
Extinguishing media		
Suitable extinguishing media	CO2, water, dry chemical, or foam	
Unsuitable extinguishing media	None known.	
Unusual fire and explosion hazard	None known.	
Special firefighting procedures	None established.	
6. Accidental Release Measures		
Personal precautions	Wear appropriate personal protective equipment.	
<b>Environmental precautions</b>	Do not let product enter drains. Do not flush in	to surface water or sanitary sewer system.
Methods for containment	Dike the spilled material, where this is possible sand or diatomaceous earth, commercial sorb	e. Absorb with inert absorbent such as dry clay ents, or recover using pumps.
Methods for cleaning up	Soak up with inert absorbent material.	
Other information	Soak up with inert absorbent material. Slowly wother sealed container. Dispose of in complian 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.	

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### 8. Exposure Controls / Personal Protection

Occupational exposure limits

**ACGIH** 

Components Type Value

**TWA** Carbon black (1333-86-4) 3.5 mg/m3

**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.

Protected gloves not required under intended use. Skin protection

General hygeine considerations

Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical & Chemical Properties

Color Black

Not available. **Odor threshold** Physical state Liquid. 7.8 - 8.8pН **Melting point** Not available.

Not available. Freezing point **Boiling point** Not determined

> 200 °F (> 93.3 °C); Pensky-Martens Closed Cup Flash point

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

upper, % by volume

Flammability limits in air,

lower, % by volume

Not determined

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

1 - 1.2 Specific gravity

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

(n-octanol/water)

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

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

#### 10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions. 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.

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### 11. Toxicological Information

### Carcinogenicity

IARC Monographs on Occupational Exposures to Chemical Agents: Evidence of carcinogenicity in humans

Carbon black (1333-86-4) Inadequate data.

US ACGIH Threshold Limit Values: A4 carcinogen

Carbon black (1333-86-4) Group A4 Not classifiable as a human carcinogen.

Symptoms and target organs

Target Organs (NIOSH)

Carbon black (1333-86-4) Eyes

Carbon black (1333-86-4) Respiratory system

12. Ecological Information

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

Persistence and degradability Not available.

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

### **IATA**

Proper shipping name Not applicable Hazard class Not applicable

UN numberNonePacking groupN/APackaging exceptionsNone

General Not a regulated article under United States DOT, IATA, ADR, IMDG, or RID.

15. Regulatory Information

US TSCA 12(b): Contains tetrahydrofuran (CASRN 109-99-9), subject to export notification

requirements.

**CERCLA (Superfund) reportable quantity** 

None

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

No

chemical

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. 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.

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#### State regulations

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Listed 2-pyrrolidone (616-45-5) Carbon black (1333-86-4) Listed.

16. Other Information

**HMIS®** ratings Health: 1

Flammability: 0

Physical hazard: 0

Health: 1 NFPA ratings

> Flammability: 0 Instability: 0

May 21 2009 6:29PM Issue date

Revision

May 20 2009 4:41PM Replaces sheet dated 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.

#### **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)

International Agency for Research on Cancer **IARC** 

**NIOSH** National Institute for Occupational Safety and Health

**NTP** National Toxicology Program

**OSHA** Occupational Safety and Health Administration

**PEL** Permissible Exposure Limit

Resource Conservation and Recovery Act **RCRA** 

**REC** Recommended

**REL** Recommended Exposure Limit

Superfund Amendments and Reauthorization Act of 1986 **SARA** 

**STEL** Short-Term Exposure Limit

**TCLP** Toxicity Characteristics Leaching Procedure

TLV Threshold Limit Value

**TSCA Toxic Substances Control Act** VOC Volatile Organic Compounds