

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of the

preparation

C9410A

Use of the preparation Inkjet printing

Manufacturer information Hewlett-Packard Company 1000 NE Circle Boulevard

Corvallis, OR 97330-4239 US

**Hewlett-Packard health effects line** 

(Toll-free within the US) 1-800-457-4209 (Direct) 1-503-494-7199

General information telephone number

 HP Customer Care Line
 1-800-474-6836

 (Toll-free)
 1-800-474-6836

 (Direct)
 1-208-323-2551

 Date prepared
 Nov 16, 2006

 MSDS number
 204590

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component/Substance	CAS Number	% By Weight
Medium gray ink		
Water	7732-18-5	> 70
2-pyrrolidone	616-45-5	< 7.5
Alkyldiol	Proprietary	< 5
Diethylene glycol	111-46-6	< 5
Triethanolamine	102-71-6	< 1.5
Carbon black	1333-86-4	< 1
Gloss Enhancer		
Water	7732-18-5	> 80
2-pyrrolidone	616-45-5	< 5
Alkyldiol	Proprietary	< 5
Polymer 58-K salt	• •	< 2.5
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 29 CFR 1910.1200 (Hazard	

Communication Standard).

## 3. HAZARDS IDENTIFICATION

**Emergency overview**Contact with skin and eyes may result in irritation. Ingestion may result in nausea, vomiting and

diarrhea.

Skin contact

2-pyrrolidone

Contact with skin may result in irritation.

Alkvldiol

Contact with skin may result in irritation.

Triethanolamine

Contact with skin may result in irritation. May cause sensitization of susceptible persons by skin

contact.

Material nameC9410AMSDS USCreation dateMay 01, 2006Version number 11 / 5

Eye contact

2-pyrrolidone

Contact with eyes may result in irritation.

Alkyldiol

Contact with eyes may result in irritation.

Triethanolamine

Contact with eyes may result in mild irritation.

Inhalation

2-pyrrolidone

Inhalation may result in respiratory irritation.

**Alkyldio** 

Inhalation may result in respiratory irritation.

Triethanolamine

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.

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.

#### 4. FIRST AID MEASURES

First aid procedures

Skin Wash affected areas thoroughly with mild soap and water. If irritation persists get medical

attention.

**Eye** 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.

**Inhalation** Move to fresh air. If symptoms persist, get medical attention.

**Ingestion** If material is ingested, immediately contact a physician or poison control center.

5. FIRE FIGHTING MEASURES

Extinguishing media

Flash point and method > 200 °F; Pensky-Martens Closed Cup

Auto ignition temperature Not determined

Hazardous combustion Refer to section 10.

products

CO2. water, dry chemical, or foam

Material nameC9410AMSDS USCreation dateMay 01, 2006Version number 12 / 5



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.

Do not let product enter drains. Do not flush into surface water or sanitary sewer system. **Environmental precautions** 

Procedures if material is released or spilled

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

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before Handling

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

ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA) 5 mg/m3 TWA Triethanolamine 102-71-6

OSHA - Final PELs - Time Weighted Averages (TWAs)

1333-86-4 Carbon black 3.5 mg/m3 TWA ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA) Carbon black 1333-86-4 3.5 mg/m3 TWA

Personal protective equipment

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

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Use in a well ventilated area. **Exposure guidelines** 

## 9. PHYSICAL & CHEMICAL PROPERTIES

9.2 - 9.4Hq

Vapor pressure Not determined Not determined **Boiling point** Soluble in water Solubility

Specific gravity 1 - 1.1 > 200 °F Flash point Vapor density > 1 (air-1.0) **Evaporation rate** Not determined **Flammability** Not determined Oxidizing properties Not determined Color Gray/colorless

### 10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Stability Stable under recommended storage conditions.

Material name C9410A MSDS US Creation date May 01, 2006 Version number 1 3/5



Will not occur. Hazardous polymerization

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

Incompatible with strong bases and oxidizing agents. Incompatibility

#### 11. TOXICOLOGICAL INFORMATION

This ink formulation has not been tested for toxicological effects.

Refer to Section 3 for potential health effects and Section 4 for first aid measures.

Carcinogenicity

**OSHA - Hazard Communication Carcinogens** 

Carbon black 1333-86-4 Present

Symptoms and target organs

NIOSH - Pocket Guide - Target Organs

Carbon black 1333-86-4 respiratory system, eyes (lymphatic cancer in presence of PAHs)

#### 12. ECOLOGICAL INFORMATION

**Aquatic toxicity** 

Gloss Enhancer

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

Medium gray ink

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

#### 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. TRANSPORTATION INFORMATION

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

**IATA** 

Proper shipping name Not applicable **Hazard class** Not applicable

Packaging exceptions None Identification number (UN) None Packing group N/A

#### 15. REGULATORY INFORMATION

All chemical substances in this HP product have been notified or are exempt from notification International regulations

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.

**US federal regulations** US TSCA 12(b): Does not contain listed chemicals.

**HMIS** ratings Health:

Flammability: 1 Physical hazard: 0

Health: 1 **NFPA** ratings

Flammability: 1 0 Instability:

Material name C9410A MSDS US Creation date May 01, 2006



#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely

hazardous substance

Section 311 hazardous

chemical

No

No

**Hazard categories** Immediate Hazard - No

> Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

## 16. OTHER INFORMATION

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

(29 CFR 1910.1200).

Issue date Nov 16 2006 2:48AM

Revision 1

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 quaranteeing 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)

**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

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

Material name C9410A MSDS US Version number 1