

# 1. Chemical Product and Company Identification

Identification of the

preparation

C9465A

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** Apr 17, 2007 **MSDS** number 227294

## 2. Composition / Information on Ingredients

Component/substance	CAS number	% by weight
Water	7732-18-5	> 70
2-pyrrolidone	616-45-5	< 7.5
Alkyldiol	Proprietary	< 5
Diethylene glycol	111-46-6	< 5
Carbon black	1333-86-4	< 5
Triethanolamine	102-71-6	< 1
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. 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.

Triethanolamine

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

skin contact.

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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.

Alkyldiol

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

**Flash point and method** 200 °F (93.3 °C); Pensky-Martens Closed Cup

Auto ignition temperature Not determined

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**Hazardous combustion** 

products

Refer to section 10.

**Extinguishing media** 

CO2, water, dry chemical, or foam

**Unsuitable extinguishing** 

media

None known.

**Unusual fire and explosion** 

hazard

Combustion generates toxic fumes of fluoride/fluorine compounds; aldejydes; ketones;

potential for acetylene.

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.

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

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

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

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

OSHA - Final PELs - Time Weighted Averages (TWAs)

Carbon black 1333-86-4 3.5 mg/m3 TWA ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA) Triethanolamine 102-71-6 5 mg/m3 TWA

#### 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. **Hygiene measures** 

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

#### 9. Physical & Chemical Properties

pН 9.3

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

Specific gravity 1 - 1.1

200 °F (93.3 °C) Flash point Vapor density > 1 (air=1.0)**Evaporation rate** Not determined **Flammability** Not determined

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**Oxidizing properties** Not determined

Color black

# 10. Chemical Stability & Reactivity Information

**Stability** Stable under recommended storage conditions.

**Hazardous polymerization** Will not occur.

**Hazardous decomposition** 

products

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. aldehydes, ketones, hydrogen

fluoride, fluorinated hydrocarbons

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

1333-86-4 Carbon black 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** 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 inkiet 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** 

None

(UN)

Packing group N/A

## 15. Regulatory Information

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.

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

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Health: 1 **HMIS** ratings Flammability: 2

0 Physical hazard:

**NFPA** ratings Health: 1

Flammability: 2 Instability: 0

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely

hazardous substance

Yes

**Section 311 hazardous** 

chemical

Immediate Hazard - No

Reactivity Hazard - No

**Hazard categories** Delayed Hazard - No Fire Hazard - Yes Pressure 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** Apr 17 2007 10:59AM

Revision 1

Replaces sheet dated Aug 28 2006 7:01AM

**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.

3. Hazards Identification: Carcinogenicity MSDS sections updated

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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

Emergency Planning and Community Right-to-Know Act (aka SARA) **EPCRA** 

**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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