

1. Chemical Product and Company Identification

Identification of the

C9460A

preparation

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 18, 2007 **MSDS** number 228769

Component/Substance	CAS Number	% By Weight
Matte Black ink		
Water	7732-18-5	> 70
2-pyrrolidone	616-45-5	< 20
Ethyl alkyldiol	Proprietary	< 5
1,5-pentanediol	111-29-5	< 5
Cyan ink		
Water	7732-18-5	> 70
2-pyrrolidone	616-45-5	< 7.5
Diethylene glycol	111-46-6	< 7.5
Alkyldiol	Proprietary	< 5
Polymer 683-K salt	•	< 2.5
Triethanolamine	102-71-6	< 1.5
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)	

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.

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Skin contact

1,5-pentanediol

Contact with skin may result in irritation.

2-pyrrolidone

Contact with skin may result in irritation.

Alkyldiol

Contact with skin may result in irritation.

Ethyl alkyldiol

Contact with skin may result in mild irritation.

Polymer 683-K salt

Contact with skin may result in irritation.

Trade Secret blue colorant

Contact with skin may result in irritation.

Triethanolamine

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

Eye contact

1,5-pentanediol

Contact with eyes may result in irritation.

2-pyrrolidone

Contact with eyes may result in irritation.

Alkyldiol

Contact with eyes may result in irritation.

Ethyl alkyldiol

Contact with eyes may result in mild irritation.

Polymer 683-K salt

Contact with eyes may result in irritation.

Trade Secret blue colorant

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.

Polymer 683-K salt

Swallowing large amounts may cause digestive discomfort. Ingestion may result in nausea, vomiting and diarrhea.

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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

None known.

Carcinogenicity

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

0.1% are listed by EU, MAK, IARC, 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.

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) Eve

for at least 15 minutes or until particles are removed. If irritation persists get medical

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 Not determined

Auto ignition temperature

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 fluorides/fluorine compounds; aldehydes; ketones.

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

re-use.

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

strong oxidizers.

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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) 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**

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

9. Physical & Chemical Properties

pН 9.2 - 9.4

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

Specific gravity 1 - 1.1

Flash point > 200 °F (> 93.3 °C)

Vapor density > 1 (air = 1.0)Not determined **Evaporation rate Flammability** Not determined **Oxidizing properties** Not determined Color Matte black/Cyan

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. hydrogen fluoride, fluorinated

hydrocarbons, aldehydes, ketones

Incompatibility Incompatible with strong bases and oxidizing agents.

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.

12. ECOLOGICAL INFORMATION

Aquatic toxicity

Cvan ink

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

Matte Black ink

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

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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. 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

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 TSCA 12(b): Contains sodium nitrite, CAS 7632-00-0 in matte black only, subject to export **US federal regulations**

notification requirements.

HMIS ratings Health: 1

2 Flammability: 0 Physical hazard:

1 NFPA ratings Health:

> Flammability: 2 Instability:

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely hazardous substance

chemical

No

Section 311 hazardous

Hazard categories

Yes

Immediate Hazard - No

Delayed Hazard - No Fire Hazard - Yes 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).

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Revision 1

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> 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

Resource Conservation and Recovery Act **RCRA**

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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