

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of the

preparation

C4940A

Use of the preparation Inkjet printing

Selectability number 83

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 Revision date 12-13-2004 MSDS number 17636

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component/substance	CAS number	% by weight	
Water	7732-18-5	< 90	
Tetraethylene glycol	112-60-7	< 5	
2-pyrrolidone	616-45-5	< 5	
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).

3. 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.

Tetraethylene glycol

Contact with skin may result in irritation.

Eye contact

2-pyrrolidone

Contact with eyes may result in irritation.

Tetraethylene glycol

Contact with eyes may cause irritation.

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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.

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 has been classified by IARC as a Group 2B (possible human

carcinogen). None of the other ingredients have been classified as carcinogens

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

4. FIRST AID MEASURES

First aid procedures

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.

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

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

Hazardous combustion

products

Refer to section 10.

Extinguishing media Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

media

None known.

Unusual fire and explosion

hazard

None known.

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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.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit values Exposure limits have not been established for this product.

ACGIH - Occupational Exposure Limits - TWAs

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

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.

Exposure guidelines Use in a well ventilated area.

9. PHYSICAL & CHEMICAL PROPERTIES

pH 7.8 - 8.4

Vapor pressureNot determinedBoiling pointNot determinedSolubilitySoluble in water

Specific gravity 1 - 1.2 VOC content < 3 %

Flash point $> 93.3 \degree C (> 200 \degree F)$

Viscosity > 2 cp

Vapor density> 1 (air = 1.0)Evaporation rateNot determinedFlammabilityNot determinedOxidizing propertiesNot determined

Color Black

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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.

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.

Symptoms and target

organs

NIOSH - Pocket Guide - Target Organs

Carbon black 1333-86-4 respiratory system, eyes

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 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

Hazard class

Not applicable

Not applicable

Packaging exceptions Identification number

None

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

notification requirements.

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HMIS ratings Health 1

Flammability Classification 1

Reactivity 0

NFPA ratings Health 1

Flammability Classification 1
Reactivity 0

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 Extremely Hazardous Substance

No

Section 311 Hazardous

No

Chemical

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 12-13-2004

Revision 2

Replaces sheet dated 10-06-2004

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

15. Regulatory Information: US federal regulations

3. Hazards Identification: Chronic health effects

Chemical Product and Company Identification: Alternate Trade Names - SKU Numbers

Composition / Information on Ingredients: Ingredient Extensions

Physical & Chemical Properties: Material Properties

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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

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

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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