

1. Product and Company Identification

C4904A **Material name**

Use of the preparation Inkjet printing

Version # 01

Revision date 12-23-2008 CAS# Mixture

Hewlett-Packard Company Company identification

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United States

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Date prepared Dec 23, 2008 MSDS number 322480

2. 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 1-(2-hydroxyethyl)-2-pyrrolidone

Contact with skin may result in irritation.

2-pyrrolidone

Contact with skin may result in irritation.

Aliphatic diol

Contact with skin may result in irritation.

Magenta pigment

Contact with skin may result in irritation.

Tetraethylene glycol

Contact with skin may result in irritation.

Eye contact 1-(2-hydroxyethyl)-2-pyrrolidone

Contact with eyes may result in irritation.

2-pyrrolidone

Contact with eyes may result in irritation.

Aliphatic diol

Contact with eyes may result in irritation.

Magenta pigment

Contact with eyes may result in irritation.

Tetraethylene glycol

Contact with eyes may cause irritation.

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Inhalation 1-(2-hydroxyethyl)-2-pyrrolidone

Inhalation may result in respiratory irritation.

2-pyrrolidone

Inhalation may result in respiratory irritation.

Aliphatic diol

Inhalation may result in respiratory irritation.

Tetraethylene glycol

Inhalation may result in respiratory irritation.

Ingestion 1-(2-hydroxyethyl)-2-pyrrolidone

Ingestion may result in nausea, vomiting and diarrhea.

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

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.

3. Composition / Information on Ingredients

Component/substance	CAS number	% by weight
Water	7732-18-5	> 65
1-(2-hydroxyethyl)-2-pyrrolidone	3445-11-2	< 10
2-pyrrolidone	616-45-5	< 10
Aliphatic diol	Proprietary	< 5
Magenta pigment	No Data	< 5
Tetraethylene glycol	112-60-7	< 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

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

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, seek medical attention.

5. Fire Fighting Measures

Flash point and method > 230 °F (> 110 °C) US EPA Method 1020; Setaflash Closed Tester

Hazardous combustion

products

Refer to section 10.

Flammable properties Combustion generates toxic fumes of fluoride and/or fluorine compounds; phosphorous

oxides.

Extinguishing media

Suitable extinguishing

media

CO2, water, dry chemical, or foam

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Unsuitable extinguishing

media

None known.

Unusual fire and explosion

hazard

Combustion generates toxic fumes of fluoride and/or fluorine compounds; phosphorous

oxides.

Special firefighting procedures Wear self contained breathing apparatus for fire fighting if necessary.

6. Accidental Release Measures

Personal precautions

Wear appropriate personal protective equipment.

Environmental precautions

Other information

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

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

8. Exposure Controls / Personal Protection

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

Personal protective equipment

General

General hygeine considerations

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

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Color Magenta

Not available. **Odor threshold**

Physical state Liquid. 8.7 - 9.1 Hq

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

> 230 °F (> 110 °C) US EPA Method 1020; Setaflash Closed Tester Flash point

Evaporation rate Not determined **Flammability** Not available. 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

Specific gravity 1 - 1.1

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

(n-octanol/water)

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

> 3 cP **Viscosity**



10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions. Incompatible materials Incompatible with strong bases and oxidizing agents.

Hazardous decomposition

products

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

yield oxides of phosphorus.

hydrogen fluoride

fluorinated hydrocarbons

Possibility of hazardous

reactions

Will not occur.

11. Toxicological Information

Not available.

12. Ecological Information

Ecotoxicity 96.00 hr, LC50 > 750 mg/l, fathead minnow (pimephales promelas)

Not available. Persistence and degradability

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. Transport Information

IATA

Not regulated as dangerous goods.

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

15. Regulatory Information

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

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

Section 311 hazardous

chemical

No

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.

State regulations

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Listed. 2-pyrrolidone (616-45-5)

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16. Other Information

HMIS® ratings Health: 1

Flammability: 1 Physical hazard: 0

NFPA ratings

Flammability: 1 Instability: 0

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Revision

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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 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

American Conference of Governmental Industrial Hygienists **ACGIH**

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

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

Manufacturer information Hewlett-Packard Company

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