

1. Product and Company Identification

Material name C4816A

Use of the preparation Inkjet printing

Version # 04

Revision date 02-15-2009
CAS # Mixture

Company identification Hewlett-Packard Company

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Date prepared Feb 14, 2009

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 1,5-pentanediol

Contact with skin may result in irritation.

2-pyrrolidone

Contact with skin may result in irritation.

Alkyldicarboxylic acid

Contact with skin may result in irritation.

Tetraethylene glycol

Contact with skin may result in irritation.

Eye contact 1,5-pentanediol

Contact with eyes may result in irritation.

2-pyrrolidone

Contact with eyes may result in irritation.

Alkyldicarboxylic acid

Contact can cause moderate to severe irritation and possible injury to the eyes.

Substituted xanthylium salt #1

Contact with eyes may result in mild irritation.

Tetraethylene glycol

Contact with eyes may cause irritation.

Inhalation 2-pyrrolidone

Inhalation may result in respiratory irritation.

Alkyldicarboxylic acid

Inhalation may result in respiratory irritation.

Tetraethylene glycol

Inhalation may result in respiratory irritation.

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Ingestion 2-pyrrolidone

Ingestion may result in nausea, vomiting and diarrhea.

Alkyldicarboxylic acid

Ingestion can cause gastrointestinal irritation, 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	< 80	
1,5-pentanediol	111-29-5	< 20	
2-pyrrolidone	616-45-5	< 10	
Alkyldicarboxylic acid	Proprietary	< 10	
Tetraethylene glycol	112-60-7	< 10	
Substituted xanthylium salt #1	Proprietary	< 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).

4. First Aid Measures

First aid procedures

Eye contact 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 contact 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

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

Refer to section 10. **Hazardous combustion**

products

Flammable properties None known.

Extinguishing media

Suitable extinguishing Dry chemical, CO2, water spray or regular foam.

media

Unsuitable extinguishing None known.

media

Unusual fire and explosion None known.

hazard

None established. Special firefighting procedures

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.

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Methods for containment Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay,

sand or diatomaceous earth, commercial sorbents, or recover using pumps.

Methods for cleaning up

Soak up with inert absorbent material.

Other information 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.

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

8. Exposure Controls / Personal Protection

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

Personal protective equipment

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

General hygeine considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Color Magenta

Not available. Odor threshold

Physical state Liquid.

pН 3.8 - 4.2Melting point Not available.

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

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

Not determined **Evaporation rate** Not available. **Flammability** Flammability limits in air, Not available.

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 - 1.2

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

(n-octanol/water)

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

< 3 % VOC **Viscosity** > 2 cp

10. Chemical Stability & Reactivity Information

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

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Hazardous decomposition

products

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide,

carbon dioxide and/or low molecular weight hydrocarbons.

Possibility of hazardous

reactions

Will not occur.

11. Toxicological Information

Not available.

12. Ecological Information

Aquatic toxicity

LC50/96h/Fathead minnows =417 mg/L

Static acute toxicity (trout), survival (100 mg/L) = 100% Static acute toxicity (trout), survival (10 mg/L) = 100%

Not available. Persistence and degradability

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. Transport Information

IATA

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

None **UN** number N/A Packing group **Packaging exceptions** None Packaging non bulk None Labels required None

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

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No **Hazard categories**

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

Section 302 extremely hazardous substance

Nο

Section 311 hazardous

chemical

Nο

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

2-pyrrolidone (616-45-5) Listed

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16. Other Information

HMIS® ratings Health: 1

Flammability: 0

Physical hazard: 0

NFPA ratings Health: 1

> Flammability: 0 Instability: 0

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Revision

Feb 5 2009 4:28PM Replaces sheet dated

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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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