

### 1. Product and Company Identification

Material name C4912A

Use of the preparation Inkjet printing

Version # 04

Revision date 02-15-2009
CAS # Mixture

Company identification Hewlett-Packard Company

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**United States** 

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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		

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.

InhalationRemove to fresh air. If symptoms persist, get medical attention.IngestionIf ingestion of a large amount does occur, seek medical attention.

#### 5. Fire Fighting Measures

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

Hazardous combustion F

products

Refer to section 10.

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

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.

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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. 3.8 - 4.2

pН Melting 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** 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 - 1.2

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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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

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