

## 1. Chemical Product and Company Identification

**Material name** C4931A

Use of the preparation Inkjet printing

Version #

**Revision date** 27-Mar-2008 CAS# Mixture

**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 1-503-494-7199 (Direct)

**General information telephone number** 

**HP Customer Care Line** 1-800-474-6836 (Toll-free) 1-800-474-6836 1-208-323-2551 (Direct) **Date prepared** Mar 27, 2008

#### 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

2-pyrrolidone

Contact with skin may result in irritation.

Aliphatic diol

Contact with skin may result in irritation.

Eye contact

2-pyrrolidone

Contact with eyes may result in irritation.

Aliphatic diol

Contact with eyes may result in irritation. Substituted phthalocyanine salt #1 Contact with eyes may result in irritation.

**Inhalation** 

2-pyrrolidone

Inhalation may result in respiratory irritation.

Aliphatic diol

Inhalation may result in respiratory irritation.

**Ingestion** 

2-pyrrolidone

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.

### 3. Composition / Information on Ingredients

Component/substance	CAS number	% by weight		
Water	7732-18-5	> 80		
Aliphatic diol	Proprietary	< 10		
2-pyrrolidone	616-45-5	< 5		
Substituted phthalocyanine salt #1	Proprietary	< 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

**Hazardous combustion** 

products

Refer to section 10.

Flammable properties None known.

Extinguishing media

Suitable extinguishing

Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

media

media

None known.

Unusual fire and explosion

hazard

None known.

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.

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

## 8. Exposure Controls/Personal Protection

### **Exposure limits**

#### **ACGIH**

Components	CAS #	TWA	STEL	Ceiling
Substituted phthalocyanine	Proprietary	0.2 mg/m3	Not established	Not established
salt #1				

#### **OSHA**

Components	CAS #	TWA	STEL	Ceiling
Substituted phthalocyanine salt #1	Proprietary	0.1 mg/m3	Not established	Not established

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

U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)

Substituted phthalocyanine **Proprietary** 0.1 mg/m3 TWA (fume); 1 mg/m3 TWA (dusts and mists)

salt #1

ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

Substituted phthalocyanine 0.2 mg/m3 TWA (fume); 1 mg/m3 TWA (dusts and mists, as Cu) **Proprietary** 

salt #1

Personal protective equipment

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

Eye / face protection Not required under intended use.

Skin protection Protected gloves not required under intended use.

Respiratory protection For use other than intended use (such as in the event of a large spill), goggles and respirators

may be required.

**General hygeine** considerations

Handle in accordance with good industrial hygiene and safety practice.

#### 9. Physical & Chemical Properties

Color Cyan

**Odor threshold** Not available **Physical state** Liquid. 7 - 8 pН

**Melting point** Not available Not available Freezing point

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**Boiling point** Not determined

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

**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

1 - 1.2 Specific gravity

Relative density Not available Solubility in water Soluble in water **Partition coefficient** Not available

(n-octanol/water)

**Auto-ignition temperature** Not available **Decomposition temperature** Not available VOC < 3 % **Viscosity** > 2 cp

# 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.

Possibility of hazardous

reactions

Will not occur.

#### 11. Toxicological Information

## Symptoms and target organs

NIOSH - Pocket Guide - Target Organs

Substituted phthalocyanine **Proprietary** 

salt #1

dusts and mists: respiratory system, skin, liver, kidneys, eyes (increased risk with Wilson"s disease); fume: respiratory system, skin, eyes,

(increased risk with Wilson's disease)

## 12. Ecological Information

**Aquatic toxicity** LC50/96h/Fathead minnows => 750 mg/L

Persistence and degradability Not available

#### 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.

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### 14. Transportation Information

#### **Department of Transportation (DOT) Requirements**

Not regulated as hazardous goods.

**IATA** 

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

**UN number** None **Packing group** N/A Packaging exceptions None

## 15. Regulatory Information

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

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Substituted phthalocyanine **Proprietary** 

salt #1

final RQ = 5000 pounds (2270 kg) (no reporting of releases of this

hazardous substance is required if the diameter of the pieces of the solid

metal released is equal to or exceeds 0.004 inches)

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Substituted phthalocyanine

salt #1

**Proprietary** 

form R reporting required for 1.0% de minimis concentration; Chemical Category N100; (does not include copper phthalocyanine compounds

substituted only with hydrogen and/or bromine or chlorine)

#### **CERCLA (Superfund) reportable quantity**

None

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No **Hazard categories** 

> Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely

hazardous substance

chemical

No

Section 311 hazardous

Yes

All chemical substances in this HP product have been notified or are exempt from notification International regulations

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

U.S. - Pennsylvania - RTK (Right to Know) List

Substituted phthalocyanine

**Proprietary** 

environmental hazard (any compound of this substance is also an

environmental hazard as well as dust and fume)

U.S. - New Jersey - Right to Know Hazardous Substance List

Proprietary sn 0528 Substituted phthalocyanine

salt #1

salt #1

## 16. Other Information

**HMIS®** ratings Health: 1

> Flammability: 2 Physical hazard: 0

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NFPA ratings Health: 1

> Flammability: 2 Instability: 0

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Revision

Replaces sheet dated Jan 9 2006 11:38PM

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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.

3. Hazards Identification: Routes of exposure MSDS sections updated

8. Exposure Controls/Personal Protection: Respiratory

**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

**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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