

#### 1. Chemical Product and Company Identification

Material name C5023A

**Use of the preparation** Inkjet printing

Version # 06

Revision date 30-Apr-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 (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

 Date prepared
 Apr 29, 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.

**Eye contact** 

2-pyrrolidone

Contact with eyes may result in irritation.

**Inhalation** 

2-pyrrolidone

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.

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Carcinogenicity

Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans).. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

Component/substance	CAS number	% by weight	
Water	7732-18-5	> 70	
2-pyrrolidone	616-45-5	< 10	
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).		

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

**Hazardous combustion** 

products

Refer to section 10.

Flammable properties None known.

Extinguishing media

Suitable extinguishing

media

CO2, water, dry chemical, or foam

Unsuitable extinguishing

media

**Unusual fire and explosion** 

hazard

None known.

Special firefighting

procedures

None known.

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.

**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.

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### 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
Carbon black	1333-86-4	3.5 mg/m3	Not established	Not established

**OSHA** 

Components	CAS #	TWA	STEL	Ceiling
Carbon black	1333-86-4	3.5 mg/m3	Not established	Not established

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

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

Carbon black 1333-86-4 3.5 mg/m3 TWA

U.S. - 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.

**Skin protection** Protected gloves not required under intended use.

General hygeine considerations

Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical & Chemical Properties

**Color** Black

**Odor threshold** Not available

Physical state Liquid. pH 7.8 - 8.8

Melting pointNot availableFreezing pointNot availableBoiling pointNot determined

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

Flammability Not available.
Flammability limits in air, upper, % by volume

Not available
Not available

Flammability limits in air,

lower, % by volume

Not determined

Vapor pressure Not determined Vapor density > 1 (air = 1.0)

Specific gravity 1 - 1.2

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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

#### Carcinogenicity

U.S. - OSHA - Hazard Communication Carcinogens

Carbon black 1333-86-4 Present

Symptoms and target organs

NIOSH - Pocket Guide - Target Organs

Carbon black 1333-86-4 respiratory system, eyes (lymphatic cancer in presence of PAHs)

#### 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.

#### 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

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### 15. Regulatory Information

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

**CERCLA (Superfund) reportable quantity** 

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No

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

Section 302 extremely

hazardous substance

**International regulations** 

Section 311 hazardous Yes

chemical

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. 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

U.S. - California - Proposition 65 - Carcinogens List

Carbon black 1333-86-4 carcinogen, initial date 2/21/03 (airborne, unbound particles of

respirable size)

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

Carbon black 1333-86-4 Present

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

Carbon black 1333-86-4 sn 0342

16. Other Information

**HMIS®** ratings Health: 1

Flammability: 2 Physical hazard: 0

NFPA ratings Health: 1

> Flammability: 2 Instability: 0

**Issue date** Apr 29 2008 4:01PM

Revision

Replaces sheet dated Apr 9 2008 11:08AM

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.

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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)

**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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