

# 1. Chemical Product and Company Identification

**Identification of the** 

preparation

C6656A

Use of the preparation Inkjet printing

**Manufacturer information Hewlett-Packard Company** 

> 1000 NE Circle Boulevard Corvallis, OR 97330-4239 US

**Hewlett-Packard health effects line** 

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**HP Customer Care Line** 1-800-474-6836 (Toll-free) 1-800-474-6836 (Direct) 1-208-323-2551 **Date prepared** Jun 12, 2007 **MSDS** number 146845

## 2. Composition / Information on Ingredients

Component/substance	CAS number	% by weight
Water	7732-18-5	> 70
2-pyrrolidone	616-45-5	< 15
Carbon black	1333-86-4	< 5
Isopropyl Alcohol	67-63-0	< 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)	

### 3. 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.

Isopropyl Alcohol

Contact with eyes may result in severe irritation.

**Inhalation** 

2-pyrrolidone

Inhalation may result in respiratory irritation.

Isopropyl Alcohol

Inhalation may cause drowsiness or dizziness.

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**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.

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.

Other information

4. First Aid Measures

First aid procedures

Skin Wash affected areas thoroughly with mild soap and water. If irritation persists get medical

attention. Wash affected areas thoroughly with mild soap and water and Get medical attention

if irritation develops or persists.

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

for at least 15 minutes or until particles are removed. If irritation persists get medical attention. 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.

**Inhalation** Move to fresh air. If symptoms persist, get medical attention. Move to fresh air, If symptoms

persist, get medical attention.

**Ingestion** If ingestion of a large amount does occur, seek medical attention. If ingestion of a large

amount does occur, seek medical attention.

5. Fire Fighting Measures

131 - 136 °F (55 - 57.8 °C); Pensky-Martens Closed Cup; No ignition, sustained combustion or Flash point and method

flashing detected using the Sustained Combustibility Test (method in US 49CFR173, Appendix

H).

**Hazardous combustion** 

products

Refer to section 10. Carbon monoxide and carbon dioxide.

**Extinguishing media** 

CO2, water, dry chemical, or foam Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

media

None known. None known.

**Unusual fire and explosion** 

hazard

None known. Flammable Liquid and Will burn if involved in a fire and Vaporizes easily at normal temperatures and Vapors may travel to a source of ignition and flash back.

Special firefighting

procedures

None established.

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#### 6. Accidental Release Measures

**Personal precautions** Wear appropriate personal protective equipment. Wear appropriate personal protective

equipment and Ensure adequate ventilation and Remove all sources of ignition.

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

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

Procedures if material is

Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or released or spilled other sealed container. Dispose of in compliance with federal, state, and local regulations. See

also section 13 Disposal considerations. Soak up with inert absorbent material, Clean remainder with a damp cloth or vacuum cleaner, 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 away from heat and sources of ignition and

Avoid contact with skin and eyes Use this product with adequate ventilation.

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

excessive heat, sparks, and open flames.

8. Exposure Controls/Personal Protection

**Exposure limit values** Exposure limits have not been established for this product.

ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA) Isopropyl Alcohol 67-63-0 200 ppm TWA ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

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

OSHA - Final PELs - Time Weighted Averages (TWAs)

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

OSHA - Final PELs - Time Weighted Averages (TWAs)

Isopropyl Alcohol 67-63-0 400 ppm TWA; 980 mg/m3 TWA

Personal protective equipment

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

protective equipment to minimize exposure to skin and eye.

Handle in accordance with good industrial hygiene and safety practice. Handle in accordance **Hygiene measures** 

with good industrial hygiene and safety practice.

**Exposure guidelines** Use in a well ventilated area. Use in a well ventilated area.

9. Physical & Chemical Properties

pН 7.8 - 8.4

Not determined Vapor pressure

**Boiling point** > 200 °F (> 93.3 °C)

**Solubility** Soluble in water Specific gravity 1 - 1.2 g/mL

**VOC** content < 3 %

131 - 136 °F (55 - 57.8 °C) Flash point

**Viscosity** > 2 cp

Vapor density > 1 (air = 1.0)Not determined **Evaporation rate** 

**Oxidizing properties** Not determined No information available.

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**Color** Black

## 10. Chemical Stability & Reactivity Information

Stability Stable under recommended storage conditions. Stable under recommended storage

conditions.

**Hazardous polymerization** Will not occur. Will not occur.

**Hazardous decomposition** 

products

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

dioxide.

**Incompatibility** Incompatible with strong bases and oxidizing agents. Incompatible with strong acids and

bases.

## 11. Toxicological Information

Complete toxicity data are not available for this specific formulation.

Refer to Section 3 for potential health effects and Section 4 for first aid measures. Complete toxicity data are not available for this specific formulation Refer to Section 3 for potential health effects and Section 4 for first aid measures.

#### Carcinogenicity

OSHA - Hazard Communication Carcinogens

Carbon black 1333-86-4 Present

## Symptoms and target organs

NIOSH - Pocket Guide - Target Organs

Isopropyl Alcohol 67-63-0 eyes, skin, respiratory system

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 LC50/96h/Fathead minnows =9460 mg/L.

EC50/48h/daphnia =13299 mg/L. EC50/72h/algae =/> 1000 mg/L.

## 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. Dispose of in

compliance with federal, state, and local regulations.

## 14. Transportation Information

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

**IATA** 

**Proper shipping name** N

Not applicable

**Hazard class** 

**Packing group** 

Not applicable

Packaging exceptions
Identification number

None None

N/A

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# 15. Regulatory Information

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. 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.

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

requirements.

Health: **HMIS** ratings 1

Flammability: 2 0 Physical hazard:

1 NFPA ratings Health:

Flammability: 2 Instability:

Superfund Amendments and Reauthorization Act of 1986 (SARA) No

Section 302 extremely

hazardous substance

**Section 311 hazardous** chemical

No

**Hazard categories** Immediate Hazard - No

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

#### 16. Other Information

Other information This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation

(29 CFR 1910.1200).

**Issue date** Jun 12 2007 6:56AM

5 Revision

Replaces sheet dated Jan 26 2007 10:57PM

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.

MSDS sections updated Chemical Product and Company Identification: Alternate Trade Names - SKU Numbers

> Composition / Information on Ingredients: Ingredients 3. Hazards Identification: Chronic health effects

3. Hazards Identification: Carcinogenicity

15. Regulatory Information: Canadian regulations

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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

Emergency Planning and Community Right-to-Know Act (aka SARA) **EPCRA** 

**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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