

1. Chemical Product and Company Identification

Material name

C4844A

Use of the preparation

Inkjet printing

Version #

06

Revision date

09-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) (Direct)

1-800-474-6836 1-208-323-2551

Date prepared

Apr 09, 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.

3. Composition	/	Information	on	Ingredients	
				-	

Component/substance	CAS number	% by weight	
Water	7732-18-5	> 70	
2-pyrrolidone Carbon black	616-45-5 1333-86-4	< 10 < 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.

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

Methods for cleaning up

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.

Other information

Soak up with inert absorbent material.

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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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 point

Not available

Freezing point

Not available

Boiling point

Not determined

Flash point

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

Evaporation rate

Not determined

Flammability

Not available.

Flammability limits in air, upper, % by volume

Not available

Flammability limits in air,

Not determined

lower, % by volume Vapor pressure

Not determined

Vapor density

> 1 (air = 1.0)

Specific gravity

1 - 1.2



Relative density

Not available

Solubility in water

Soluble in water

Partition coefficient

(n-octanol/water)

Not available

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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5. Regulatory Information

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

requirements.

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

Section 311 hazardous

chemical

Yes

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.

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

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Revision

Replaces sheet dated Mar 26 2008 9:50PM

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

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

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