

1. PRODUCT AND COMPANY IDENTIFICATION

Material name C4810A

Product use Inkjet printing

Version # 08

Revision date 22-May-2009
CAS # Mixture

Company identification Hewlett-Packard (Canada) Co.

5150 Spectrum Way Mississauga, Ontario

Canada L4W 5G1

Telephone 1-800-387-3867

Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209

(Direct) 1-503-494-7199 HP Customer Care Line

(Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551

Email: hpcustomerinquiries@hp.com

Poison Information Centre telephone number

Date prepared May 21, 2009

2. HAZARDS IDENTIFICATION

Emergency Overview Contact with skin and eyes may result in irritation. 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.

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.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Component/substance	CAS number	% by weight
Water	7732-18-5	< 80
2-pyrrolidone	616 -4 5-5	< 10
Carbon black	1333-86-4	< 5

Composition comments This ink supply contains an aqueous ink formulation.

The components of this product have been evaluated in accordance with the hazard criteria of

the Canada Controlled Products Regulations.

4. FIRST AID MEASURES

First aid procedures

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

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

Hazardous combustion Refer to section 10.

products

Flammable properties None known.

Extinguishing media

Suitable extinguishing

media

CO2, water, dry chemical, or foam

Unsuitable extinguishing

media

None known.

Unusual fire and explosion

hazard

None known.

Special firefighting procedures None established.

6. ACCIDENTAL RELEASE MEASURES

Wear appropriate personal protective equipment. Personal precautions

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

Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, Methods for containment

sand or diatomaceous earth, commercial sorbents, or recover using pumps.

Methods for cleaning up

Other information Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or

Soak up with inert absorbent material.

other sealed container. Dispose of in compliance with federal, state, and local regulations.

See also section 13 Disposal considerations.

7. HANDLING AND STORAGE

Avoid contact with skin, eyes and clothing. Handling

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

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits

ACGIH

Components Type Value

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

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

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 AND CHEMICAL PROPERTIES

Color Black

Odour threshold Not available.

Physical state Liquid.

pH 7.8 - 8.8

Melting pointNot available.Freezing pointNot available.Boiling pointNot determined

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

Evaporation rateNot determinedFlammabilityNot available.Flammability limits in air.Not available.

Flammability limits in air, upper, % by volume

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 (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

nazardous decomposition

products carbon dioxide and/or low molecular weight hydrocarbons.

Possibility of hazardous

reactions

Will not occur.

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Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide,



11. TOXICOLOGICAL INFORMATION

Carcinogenicity

IARC Monographs on Occupational Exposures to Chemical Agents: Evidence of carcinogenicity in humans

Carbon black (1333-86-4) Inadequate data.

Symptoms and target organs

Target Organs (NIOSH)

Carbon black (1333-86-4) Eyes

Carbon black (1333-86-4) Respiratory system

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. TRANSPORT INFORMATION

IATA

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

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

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

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS status Non-controlled

16. OTHER INFORMATION

Manufacturer information **Hewlett-Packard Company**

> 1000 NE Circle Boulevard Corvallis, OR 97330-4239 US (Direct) 1-503-494-7199

(Toll-free within the US) 1-800-457-4209

Health: 1 **HMIS®** ratings

Flammability: 0 Physical hazard: 0

Health: 1 NFPA ratings

Flammability: 0 Instability: 0

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Revision

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Section 1 above and may not meet regulatory requirements in other countries.

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