

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Identification of the

preparation

51640A

Product use Inkjet printing

Version # 07

Revision date 24-Feb-2011 **CAS #** Mixture

Company identification Hewlett-Packard Company

3000 Hanover Street Palo Alto, CA 94304-1185

United States

Telephone 650-857-1501

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: hpcustomer.inquiries@hp.com

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.

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.

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

Carcinogenicity Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly

carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not

present this carcinogenic risk.

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

Components	CAS #	Percent
Water	7732-18-5	70 - 80

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2-pyrrolidone	616-45-5	10 - 15
Carbon black	1333-86-4	2.5 - 5
Isopropyl Alcohol	67-63-0	1 - 2.5

Composition comments

This ink supply contains an agueous ink formulation.

This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard

Communication Standard).

Carbon black is present only in a bound form in this preparation.

4. First Aid Measures

First aid procedures

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

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

Flammable properties

None known.

Extinguishing media

Suitable extinguishing

media

CO2, water, dry chemical, or foam

Unsuitable extinguishing

media

None known.

Protection of firefighters

Specific hazards arising

from the chemical

None known.

Specific methods None established. **Hazardous combustion**

products

Refer to section 10.

6. Accidental Release Measures

Personal precautions

Wear appropriate personal protective equipment.

Environmental precautions

Other information

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

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

Occupational exposure limits

ACGIH

Components	Туре	Value	
Carbon black (1333-86-4)	TWA	3.5000 mg/m3	
Isopropyl Alcohol (67-63-0)	STEL	400.0000 ppm	
	TWA	200.0000 ppm	

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U.S. - OSHA

Components	Туре	Value	
Isopropyl Alcohol (67-63-0)	PEL	400.0000 ppm	
		980.0000 mg/m3	
	STEL	1225.0000	
		mg/m3	
		500.0000 ppm	
	TWA	400.0000 ppm	
		980.0000 mg/m3	

U.S. - Tennessee

Components	Туре	Value	
Carbon black (1333-86-4)	TWA	3.5000 mg/m3	
Isopropyl Alcohol (67-63-0)	STEL	500.0000 ppm	
		1225.0000	
		mg/m3	
TWA	TWA	400.0000 ppm	
		980.0000 mg/m3	

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

Engineering controlsUse in a well ventilated area. Provide adequate ventilation.

Personal protective equipment

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 hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

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

9. Physical & Chemical Properties

Appearance Not available.

Color Black.

OdorNot available.Odor thresholdNot available.

Physical state Liquid

Form Not available.

pH 7.8

Melting pointNot available.Freezing pointNot available.Boiling point200 °F (93.3 °C)

Flash point 131 °F (55 °C) Pensky-Martens Closed Cup; No ignition, sustained combustion or flashing detected

using the Sustained Combustibility Test (method in US 49CFR173, Appendix H).

Evaporation rate Not determined **Flammability limits in air,** Not available.

upper, % by volume

volulile

Flammability limits in air, lower, % by volume

Not available.

Vapor pressure Not determined Vapor density Not available.

Specific gravity 1

Relative density Not available. **Solubility (water)** Soluble in water

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Auto-ignition temperature Not available. **Decomposition temperature** Not available.

Viscosity 2 cp **Bulk density** 1 gm/ml VOC < 3 %

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 Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group,

2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it

remains bound within a product matrix, specifically, rubber, ink, or paint.

ACGIH Carcinogens

Carbon black (CAS 1333-86-4) A4 Not classifiable as a human carcinogen. Isopropyl Alcohol (CAS 67-63-0) A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

IARC Monographs: Evidence of carcinogenicity in humans

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

Serious eye damage/eye

irritation

Not available.

Skin sensitization Not available.

Symptoms and target organs Target Organs (NIOSH)

Carbon black (CAS 1333-86-4) Eyes

Respiratory system

Isopropyl Alcohol (CAS 67-63-0) Eyes

Respiratory system

Skin

Further information Complete toxicity data are not available for this specific formulation.

Refer to Section 2 for potential health effects and Section 4 for first aid measures.

12. Ecological Information

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

Persistence and degradability Not available. **Partition coefficient** Not determined

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

Further information Not a dangerous good under United States DOT, IATA, ADR, IMDG, or RID.

No ignition, sustained combustion, or flashing detected, using the Sustained Combustibility Test prescribed in the UN Manual of Tests and Criteria, Part III subsection 32.5.2. Refer to Dangerous

Goods Regulations Section 3.3.1.3.

No ignition, sustained combustion or flashing detected using the sustained combustibility test

(method in US CFR173, Appendix H).

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DOT

Not regulated as dangerous goods.

IATA

Basic shipping requirements:

Proper shipping nameHazard class
Not applicable
Not applicable

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

Additional information:

Packaging exceptions None Basic shipping requirements:
Labels required None

Additional information:

Packaging non bulk None

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

15. Regulatory Information

CERCLA (Superfund) reportable quantity

None

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200

hazardous chemical

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Yes

Hazard categories Immediate Hazard - No

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

Section 302 extremely hazardous substance

No

Section 311 hazardous

No

chemical

State regulations

US - Pennsylvania RTK - Hazardous Substances: Listed substance

2-pyrrolidone (CAS 616-45-5) Listed. Carbon black (CAS 1333-86-4) Listed. Isopropyl Alcohol (CAS 67-63-0) Listed.

Regulatory information 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.

16. Other Information

Other information This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29

CFR 1910.1200).

HMIS® ratings Health: 1

Flammability: 2 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 2 Instability: 0

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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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This data sheet contains changes from the previous version in section(s):

Product and Company Identification: Alternate Trade Names

Hazards Identification: Chronic health effects Hazards Identification: Carcinogenicity

Composition / Information on Ingredients: Composition comments

11. Toxicological Information: Carcinogenicity 15. Regulatory Information: US federal regulations 15. Regulatory Information: Regulatory 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

Explanation of abbreviations

ACGIH American Conference of Governmental Industrial Hygienists

CAS Chemical Abstracts Service

Comprehensive Environmental Response Compensation and Liability Act **CERCLA**

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

Toxicity Characteristics Leaching Procedure **TCLP**

TLV Threshold Limit Value

TSCA Toxic Substances Control Act VOC Volatile Organic Compounds

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