

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product name 51640A

Product use Inkjet printing

Manufacturer/Supplier

Address

Hewlett-Packard Company 1000 NE Circle Boulevard

Corvallis

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97330-4239 **United States**

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

1-503-494-7199 (Direct) E-mail Not available. **Contact person** Not available. **Emergency telephone** Not available.

number

Emergency telephone

Company identification

number

Not available.

Recommended use and Limitations on use Recommended use Inkjet printing

9F Hsinyi Trading Center, No. 106, Sec.5

Hsin-Yi Rd., Hsin-Yi Dist.

Taipei, 110 Taiwan, R.O.C

HP Taiwan

Telephone (02)8722-9000

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

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

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.

Other information This black ink is not classified according to EU Directive 1999/45/EC.

Classification Not classified.

Physical hazards Not classified as a physical hazard. **Health hazards** Not classified as a health hazard.

Environmental hazards Not classified as an environmental hazard.

3. COMPOSITION	/INFORMATION ON	INGREDIENTS
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Components	CAS#	Percent	EC-No.	Classification
Water	7732-18-5	70 - 80	231-791-2	
2-pyrrolidone	616-45-5	10 - 15	210-483-1	Xi;R36/38
Carbon black	1333-86-4	2.5 - 5	215-609-9	
Isopropyl alcohol	67-63-0	1 - 2.5	200-661-7	F;R11, Xi;R36, R67

Composition comments This ink supply contains an aqueous ink formulation.

This product has been evaluated using criteria specified in the EU Directives 67/548/EEC and

1999/45/EC, as amended.

For the full text of the R phrases mentioned in this Section, see Section 16.

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

4. FIRST AID MEASURES

First aid measures for different exposure routes

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

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

attention.

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.

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

Most important symptoms

and effects

Not available.

Personal protection for first-aid responders

Not available.

Notes to physician Not available.

5. FIRE-FIGHTING MEASURES

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

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

Extinguishing media CO2, water, dry chemical, or foam

Extinguishing media to avoid None known. Specific hazards during fire None known.

fighting

Special fire fighting

procedures

None established.

Protection of fire-fighters None.

Hazardous combustion

products

Refer to section 10.

Flammable properties

None known.

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.

Spill cleanup methods Not available.

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

Not available. **Precautions** Safe handling advice Not available.

Storage

Suitable storage conditions

Not available.

Incompatible materials

Not available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

Taiwan

Components	Туре	Value	
Carbon black (1333-86-4)	TWA	3.5000 mg/m3	
Isopropyl alcohol (67-63-0)	TWA	400.0000 ppm	
		983.0000 mg/m3	

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	

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

Use in a well ventilated area. **Engineering measures** Provide adequate ventilation.

Personal protective equipment

Respiratory protection For use other than intended use (such as in the event of a large spill), goggles and respirators may

be required.

Not available. **Hand protection**

Eye protection Not required under intended use.

Skin and body protection Protected gloves not required under intended use.

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

Personal protective equipment

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state Liquid. Color Black.

Odor Not available. **Odour threshold** Not available.

7.8

Melting point/freezing point Not available. **Boiling point, initial boiling** point, and boiling range

93.3 °C (200 °F)

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

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

Auto-ignition temperature Not available. Flammability (solid, gas) Not available. Flammability limit - lower (%) Not available. Flammability limit - upper (%) Not available. Vapor pressure Not determined Vapor density Not available. **Evaporation rate** Not determined Not available. **Relative density**

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Density Not available. Soluble in water Solubility **Partition coefficient** Not determined

(n-octanol/water)

Decomposition temperature Not available. **Bulk density** 1 gm/ml **Viscosity** 2 cp

Kinematic viscosity Not available. Not available. Kinematic viscosity temp

Other data

Chemical family ink Inst. power density 1.038 VOC (Weight%) < 3 %

10. STABILITY AND REACTIVITY

Stable under recommended storage conditions. Stability

Possibility of hazardous

reactions

Will not occur.

Conditions to avoid None

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.

11. TOXICOLOGICAL INFORMATION

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

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 aide measures.

12. ECOLOGICAL INFORMATION

Ecotoxicological data

Components **Test Results**

2-pyrrolidone (616-45-5) EC50 Water flea (Daphnia pulex): 13.21 mg/l 48.00 hours Isopropyl alcohol (67-63-0)

LC50 Western mosquitofish (Gambusia affinis): > 1400 mg/l

96.00 hours

Not available. **Ecotoxicity** Persistence and degradability Not available. **Bioaccumulation** Not available. Mobility in soil Not available.

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

Other hazardous effects Not available.

13. DISPOSAL CONSIDERATIONS

Local disposal regulations 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.

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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.

IATA

Basic shipping requirements:

Proper shipping nameHazard class
Not applicable
Not applicable

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

Additional information:

Packaging exceptionsNoneBasic shipping requirements:NoneLabels requiredNone

Additional information:

Packaging non bulk None

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

15. REGULATORY INFORMATION

Applicable regulations

Taiwan Hazard - Toxic Materials: Classification

Isopropyl alcohol (CAS 67-63-0) Organic Solvent Toxicant

Taiwan Hazard - Toxic Materials: Item reference number

Isopropyl alcohol (CAS 67-63-0)

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.

Other information Information about steering tax on giving on volatile organic compounds (VOC) can be found in

Section 9 (physical and chemical qualities).

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

TOXICOLOGICAL INFORMATION: Carcinogenicity REGULATORY INFORMATION: Regulatory information

16. OTHER INFORMATION

References Not available.

Issued by
Not available.

Prepared by

Not available.

Disclaimer This Safety Data Sheet document is provided without charge to customers of Hewlett-Packarc

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

CFR 1910.1200).

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Manufacturer information Hewlett-Packard Company

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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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