

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Identification of the

preparation

51645 Series

Product use Inkjet printing

Version # 10

Revision date 11-Sep-2012
CAS # Mixture

Company identification Hewlett-Packard Company

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United States

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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

Chronic health effects

None known.

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.

Material name: 51645 Series MSDS US

3. Composition / Information on Ingredients		
Components	CAS #	Percent
Water	7732-18-5	< 80
2-pyrrolidone	616-45-5	< 15

Isopropyl Alcohol 67-63-0 < 2.5

Composition comments This ink supply contains an aqueous ink formulation.

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

1333-86-4

< 5

Communication Standard).

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

4. First Aid Measures

First aid procedures

Carbon black

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.

InhalationMove to fresh air. If symptoms persist, get medical attention.IngestionIf ingestion of a large amount does occur, seek medical attention.

General advice No additional information

5. Fire Fighting Measures

Flammable properties None known.

Extinguishing media

Suitable extinguishing

media

CO2, water, dry chemical, or foam

Unsuitable extinguishing

media

None known.

Specific methods
Hazardous combustion

hazardous combustion

products

None established. Refer to section 10.

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 containmentDike 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.

Methods for cleaning up

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.

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	Form
Carbon black (1333-86-4)	TWA	3.0000 mg/m3	Inhalable fraction.
Isopropyl Alcohol (67-63-0)	BEI	40.0000 mg/l	
	STEL	400.0000 ppm	

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Value Components **Type Form TWA** 200.0000 ppm U.S. - OSHA **Components Value Type** Isopropyl Alcohol (67-63-0) PEL 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	STEL	500.0000 ppm	
		1225.0000	
		mg/m3	
	TWA	400.0000 ppm	
		980.0000 mg/m3	

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

Engineering controls Use in a well ventilated area.

Personal protective equipment

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

Not available. **Appearance**

Color Black.

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

Physical state Liquid

Form Not available.

рH 7.8

Melting point Not available. Freezing point Not available. **Boiling point** 200 °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 Not available.

Flammability limits in air, upper, % by volume

Flammability limits in air, lower, % by volume

Not available.

Vapor pressure Not determined Not available. Vapor density

Specific gravity 1

Relative density Not available. Solubility (water) Soluble in water **Auto-ignition temperature** Not available. **Decomposition temperature** Not available.

Material name: 51645 Series MSDS US **Viscosity** 2 cp **Bulk density** 1 am/ml VOC Not available.

Other information For other VOC regulatory data/information see section 15.

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) A3 Confirmed animal carcinogen with unknown relevance to

humans.

A4 Not classifiable as a human carcinogen. Isopropyl Alcohol (CAS 67-63-0)

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.

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

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 Do not allow this material to drain into sewers/water supplies.

Dispose of waste material according to Local, State, Federal, and Provincial Environmental

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 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.

ΤΔΤΔ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

15. Regulatory Information

US TSCA 12(b): Does not contain listed chemicals.

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)

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

Nο

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.

Other information

Specific Provisions: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (in the amended version OJ L 396 from 29.05.2007 page 3 with further rectifications and amendments). Exposure Limits (See Section 8): Executive regulation of Minister of Labour and Social Policy dated Nov. 29, 2002 concerning the highest exposure limits and volume of factors harmful for health and environment at work (Official Journal of Laws no 217/2002 item 1833 with further amendments).

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

Material name: 51645 Series MSDS US

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.

Issue date 11-Sep-2012

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

Product and Company Identification: Alternate Trade Names

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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