

1. Product and Company Identification

Material nameC9465AUse of the preparationInkjet printing

Version # 01

Revision date 01-Dec-2009

Company identification Hewlett-Packard Company

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Date prepared Nov 30, 2009 MSDS number 227294

2. Hazards Identification

Emergency overview Contact with skin and eyes may result in irritation. Ingestion may result in nausea, vomiting

and diarrhea. May cause sensitization of susceptible persons.

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.

Alkyldiol

Contact with skin may result in irritation.

Eye contact 2-pyrrolidone

Contact with eyes may result in irritation.

Alkyldiol

Contact with eyes may result in irritation.

Inhalation 2-pyrrolidone

Inhalation may result in respiratory irritation.

Alkyldiol

Inhalation may result in respiratory irritation.

Ingestion 2-pyrrolidone

Ingestion may result in nausea, vomiting and diarrhea.

Diethylene glycol

Harmful if swallowed. May cause kidney and liver damage. May depress the central nervous

system.

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

Material name C9465A MSDS US

Creation date Apr 16, 2006 Version number 1 1/6



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

nk.

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	< 80	
2-pyrrolidone	616-45-5	< 7.5	
Alkyldiol	Proprietary	< 5	
Diethylene glycol	111-46-6	< 5	
Carbon black	1333-86-4	< 2.5	
Triethanolamine	102-71-6	< 1	
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 material is ingested, immediately contact a physician or poison control center.

5. Fire Fighting Measures

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

Hazardous combustion Refer to section 10.

products

Flammable properties Combustion generates toxic fumes of fluoride/fluorine compounds; aldejydes; ketones;

potential for acetylene.

Extinguishing media

Suitable extinguishing

media

CO2, water, dry chemical, or foam

Unsuitable extinguishing

media

None known.

Unusual fire and explosion

Combustion generates toxic fumes of fluoride/fluorine compounds; aldejydes; ketones;

potential for acetylene.

Special firefighting procedures None established.

6. Accidental Release Measures

Personal precautionsWear 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.

Material name C9465A MSDS US

Creation date Apr 16, 2006 Version number 1 2 / 6



7. Handling and Storage

Handling Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before

e-use.

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

strong oxidizers.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

Components	Туре	Value	
Carbon black (1333-86-4)	TWA	3.5 mg/m3	
Triethanolamine (102-71-6)	TWA	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.

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 hygeine considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Color black

Odor threshold Not available.

Physical state Not available.

pH 9.3

Melting pointNot available.Freezing pointNot available.Boiling pointNot determined

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

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

upper, % by volume

Flammability limits in air,

lower, % by volume

Not determined

Vapor pressure Not determined
Vapor density > 1 (air=1.0)
Specific gravity 1 - 1.1

Relative density
Solubility (water)

Partition coefficient

Not available.

Not available.

(n-octanol/water)

Not available.

Auto-ignition temperature Not determined Decomposition temperature Not available.



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. aldehydes, ketones, hydrogen

fluoride, fluorinated hydrocarbons

Possibility of hazardous

reactions

Will not occur.

11. Toxicological Information

Carcinogenicity

IARC Monographs: Evidence of carcinogenicity in humans

Carbon black (1333-86-4) Inadequate data. Triethanolamine (102-71-6) Inadequate data.

US ACGIH Threshold Limit Values: A4 carcinogen

Carbon black (1333-86-4) Group A4 Not classifiable as a human carcinogen.

Symptoms and target organs

Target Organs (NIOSH)

Carbon black (1333-86-4) Eyes

Carbon black (1333-86-4) Respiratory system

12. Ecological Information

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

Not available. Persistence and degradability

13. Disposal Considerations

Dispose of in compliance with federal, state, and local regulations. **Disposal instructions**

> 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

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

UN number None Packing group N/A None Packaging exceptions

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

15. Regulatory Information

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

CERCLA (Superfund) reportable quantity

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

Material name C9465A MSDS US Creation date Apr 16, 2006 Version number 1 4/6



Section 302 extremely hazardous substance

No

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.

State regulations

US - Pennsylvania RTK - Hazardous Substances: Listed substance

2-pyrrolidone (616-45-5) Carbon black (1333-86-4) Listed. Diethylene glycol (111-46-6) Listed. Triethanolamine (102-71-6) Listed.

16. Other Information

HMIS® ratings Health: 1

Flammability: 2 Physical hazard: 0

Health: 1 NFPA ratings

Flammability: 2 Instability: 0

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Nov 19 2009 9:44PM Replaces sheet dated

Manufacturer information **Hewlett-Packard Company**

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

(29 CFR 1910.1200).

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.

Material name C9465A MSDS US Creation date Apr 16, 2006 Version number 1 5/6



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

Material nameC9465AMSDS USCreation dateApr 16, 2006Version number 16 / 6