

1. Product and Company Identification

Material nameC9453AUse of the preparationInkjet printing

Version # 02

Revision date 01-Dec-2009

Company identification Hewlett-Packard Company

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United States

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Date prepared Nov 30, 2009 MSDS number 593827

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

Chronic health effects None known.

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Carcinogenicity

None of the components present in this formulation at concentrations equal to or greater than 0.1% are listed by EU, MAK, IARC, NTP or OSHA.

	0.1% are listed by EU, MAK, IARC, NTP or OSI	HA.
3. Composition / Information on Ingredients		
Component/substance	CAS number	% by weight
Water	7732-18-5	< 70
2-pyrrolidone	616-45-5	< 7.5
Diethylene glycol	111-46-6	< 7.5
Alkyldiol Triethanolamine	Proprietary 102-71-6	< 5 < 1
	This ink supply contains an aqueous ink formulation.	
Composition comments	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 products	Refer to section 10.	
Flammable properties	Combustion generates toxic fumes of fluoride/fluorine compounds; aldehydes; ketones; acetylene.	
Extinguishing media		
Suitable extinguishing media	CO2, water, dry chemical, or foam	
Unsuitable extinguishing media	None known.	
Unusual fire and explosion hazard	Combustion generates toxic fumes of fluoride/fluorine compounds; aldehydes; ketones; acetylene.	
Special firefighting procedures	None established.	
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.	
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.	
7. Handling and Storage		
Handling	Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.	
Storage	Keep out of the reach of children. Keep away from excessive heat or cold. Store away from strong oxidizers.	

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8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

Components Type Value

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

ColorMagentaOdor thresholdNot available.Physical stateNot available.

pH 9.4

Melting pointNot available.Freezing pointNot available.Boiling pointNot determined

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

Evaporation rate Not determined
Flammability Not available.
Flammability limits in air,
upper, % by volume

Not available.

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.

(n-octanol/water)

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

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Possibility of hazardous

reactions

Will not occur.

11. Toxicological Information

Carcinogenicity

IARC Monographs: Evidence of carcinogenicity in humans

Triethanolamine (102-71-6) Inadequate data.

12. Ecological Information

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

Persistence and degradability Not available.

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 Packaging exceptions None

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

Section 302 extremely

hazardous substance

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) Listed Diethylene glycol (111-46-6) Listed. Triethanolamine (102-71-6) Listed.

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16. Other Information

HMIS® ratings Health: 1

Flammability: 2 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 2 Instability: 0

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Revision 2

Replaces sheet dated
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Manufacturer information
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Other information This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation

(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.

MSDS sections updated 8. Exposure Controls / Personal Protection: Respiratory protection

8. Exposure Controls / Personal Protection: Eye / face protection 8. Exposure Controls / Personal Protection: Skin protection

14. Transport Information: General

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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