## MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

Material name CN622Series

Version # 02

Issue date18-Feb-2013Revision date08-Jun-2013Supersedes date18-Feb-2013CAS #Mixture

Product use Inkjet printing

**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) 760-710-0048 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.

Other hazards

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

# 3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
2-pyrrolidone	616-45-5	< 10
alkyldiol	Proprietary	< 5
Pigment Blue	Proprietary	< 5
Non-hazardous components	CAS#	Percent
Water	7732-18-5	> 70
Ethyl alkyldiol	Proprietary	< 15

**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

**General advice** Potential routes of overexposure to this product are skin and eye contact

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.

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**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.

Not available.

Fire fighting

equipment/instructions

one

Specific methods

**Specific methods** Wear self contained breathing apparatus for fire fighting if necessary.

Use a water spray to cool fully closed containers.

**Hazardous combustion** 

products

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 cleaning up

Soak up with inert absorbent material.

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.

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

## 8. Exposure Controls / Personal Protection

#### **Occupational exposure limits**

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form
Glycerol (CAS Proprietary)	TWA	10 mg/m3	Mist.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Glycerol (CAS Proprietary)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

US. Tennessee. OELs. Occupational Exposure Limits. Table Z1A

Components	Туре	Value	Form
Glycerol (CAS Proprietary)	TWA	5 mg/m3	Respirable fraction and dust or fume.
		10 ma/m3	Total dust and mist.

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

**Engineering controls** Use in a well ventilated area.

Personal protective equipment

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

General hygiene
considerations

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

Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical & Chemical Properties

AppearanceLiquid.Physical stateLiquid.FormNot available.ColorCyan

**Odor** Not available.

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9 - 10 pН

Vapor pressure Not determined Not determined **Boiling point** Melting point/Freezing point Not available. Solubility (water) Soluble in water Specific gravity Not available.

Flash point >= 230.00 °F (>= 110.00 °C) Pensky-Martens Closed Cup

VOC < 96.017 g/I

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

# 10. Chemical Stability & Reactivity Information

**Chemical stability** Stable under recommended storage conditions.

Conditions to avoid No information available

**Incompatible materials** Incompatible with strong bases and oxidizing agents.

Will not occur.

**Hazardous decomposition** products

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular

weight hydrocarbons.

**Possibility of hazardous** reactions

11. Toxicological Information

## **Toxicological data**

Components	Species	Test Results	
2-pyrrolidone (CAS 616-45-5)			
Acute			
Oral			
LD50	Guinea pig	6500 mg/kg	
	Rat	6500 mg/kg	
Serious eye damage/eye irritation	Not available.		
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.		
<del></del>			

# 12. Ecological Information

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

Ecotovicological data

Ecotoxicological data			
Components		Species	Test Results
2-pyrrolidone (CAS 616-45-5	)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	13.21 mg/l, 48 hours
alkyldiol (CAS Proprietary)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	51000 - 57000 mg/l, 96 hours
Crustacea	EC50	Daphnia	102, 48 Hours
Fish	LC50	Fish	1000, 96 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	10330 - 16360 mg/l, 48 hours
Fish	LC50	Bleak (Alburnus alburnus)	> 10000 mg/l, 96 hours

Persistence and degradability Not available.

**Bioaccumulation / Accumulation** 

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#### **Bioaccumulative potential**

## Octanol/water partition coefficient log Kow

2-pyrrolidone -0.85alkyldiol -1.76

**Partition coefficient** 

2-pyrrolidone -0.85alkyldiol -1.76

# 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.

Do not dispose of together with general office waste. Ensure collection and disposal with an

appropriately licensed waste contractor.

HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkiet 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

#### DOT

Not regulated as dangerous goods.

#### **IATA**

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

#### **RID**

Not regulated as dangerous goods.

**Further information** 

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

# 15. Regulatory Information

#### **US federal regulations**

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

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number** 

Not listed.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

**DEA Exempt Chemical Mixtures Code Number** 

Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

## **CERCLA (Superfund) reportable quantity**

None

## 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

**SARA 302 Extremely** 

No

hazardous substance

No

**SARA 311/312 Hazardous chemical** 

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Other information VOC content (less water, less exempt compounds) = <411 g/L (U.S. requirement, not for

emissions)

VOC data based on formulation (Organic compounds minus solids)

Other 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 - New Jersey RTK - Substances: Listed substance** 

alkyldiol (CAS Proprietary) Listed.

**US. Massachusetts RTK - Substance List** 

2-pyrrolidone (CAS 616-45-5) alkyldiol (CAS Proprietary)

**US. Pennsylvania RTK - Hazardous Substances** 

2-pyrrolidone (CAS 616-45-5) Listed. alkyldiol (CAS Proprietary) Listed.

**US. Rhode Island RTK** 

alkyldiol (CAS Proprietary)

16. Other Information

**HMIS®** ratings Health: 1

> Flammability: 1 Physical hazard: 0

NFPA ratings Health: 1

> Flammability: 1 Instability: 0

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.

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

CFR 1910.1200).

**Issue date** 18-Feb-2013

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

1. Product and Company Identification: Product and Company Identification

Hazards Identification: Other hazards 4. First Aid Measures: General advice

9. Physical & Chemical Properties: Appearance 9. Physical & Chemical Properties: Other information

**Manufacturer information** 

**Hewlett-Packard Company** 3000 Hanover Street

Palo Alto, California 94304-1112 US

(Direct) 1-503-494-7199

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

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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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